

| <b>Name of Supervisor</b> | <b>Branch</b>                  | <b>University Roll no.</b> | <b>Name of the Student</b> | <b>Title of Thesis</b>                                                                 | <b>University</b>                                  | <b>Status (Ongoing/ Awarded)</b> |
|---------------------------|--------------------------------|----------------------------|----------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------|
| Akshay Girdhar            | Computer Science & Engineering | 1312068                    | Harmeet Kaur               | Shadow Enhancement in Intravascular Ultrasound (IVUS) Images                           | I.K. Gujral Punjab Technical University, Jalandhar | Awarded                          |
| Akshay Girdhar            | Computer Science & Engineering | 1268393                    | Inderpreet Kaur Juneja     | Image Denoising of Ultrasound Images using Curvelet Transform                          | I.K. Gujral Punjab Technical University, Jalandhar | Awarded                          |
| Akshay Girdhar            | Information Technology         | 1268392                    | Inderjeet Singh            | Investigations on Impact of Reservation Policy on Student Enrollment using Data Mining | I.K. Gujral Punjab Technical University, Jalandhar | Awarded                          |
| Akshay Girdhar            | Computer Science & Engineering | 100376582196               | Ashima Goyal               | Image Denoising using Wavelet Transform for Natural Images                             | I.K. Gujral Punjab Technical University, Jalandhar | Awarded                          |
| Akshay Girdhar            | Computer Science & Engineering | 1268390                    | Hanit Karwal               | Vehicle Number Plate Detection System for Indian Vehicles                              | Punjab Technical University, Jalandhar             | Awarded                          |
| Akshay Girdhar            | Computer Science & Engineering | 100376582192               | Deepika Sood               | Image Denoising of Medical Ultrasound Images using Wavelets                            | Punjab Technical University, Jalandhar             | Awarded                          |
| Akshay Girdhar            | Computer Science & Engineering | 1268523                    | Harjot Kaur Gill           | Automatic Region Growing Segmentation for Ultrasound Images                            | Punjab Technical University, Jalandhar             | Awarded                          |
| Akshay Girdhar            | Computer Science & Engineering | 100376582197               | Anureet Kaur               | Region of Interest based Contrast Enhancement Technique for CT Images                  | Punjab Technical University, Jalandhar             | Awarded                          |
| Akshay Girdhar            | Information Technology         | 1168040                    | Harbhag Singh              | A Framework for the Assessment of Outcome based Education Model using Data Mining      | Punjab Technical University, Jalandhar             | Awarded                          |

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|----------------|----------------------------------|-------------|---------------------|--------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Akshay Girdhar | Computer Science & Engineering   | 80101107029 | Ravinder Kaur Saini | A Novel Algorithm for Degraded and Distorted Text Images                             | Punjab Technical University, Jalandhar             | Awarded |
| Akshay Girdhar | Computer Science & Engineering   | 96336582130 | Manpreet Kaur       | Adaptive Contrast Enhancement of Medical X-Ray Images                                | Punjab Technical University, Jalandhar             | Awarded |
| Akshay Girdhar | Computer Science & Engineering   | 80101107042 | Shamandeep Singh    | Feature Extraction from Human Facial Data Using Knowledge Based System               | Punjab Technical University, Jalandhar             | Awarded |
| Akshay Girdhar | Computer Science & Engineering   | 1312071     | Manjinder Kaur      | Fusion of Medical Images using Multiresolution Techniques                            | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar | Computer Science & Engineering   | 1312076     | Shallu Raja Garg    | Despeckling of Medical Ultrasound Images using Local Statistics Filter               | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar | Computer Science & Engineering   | 1312082     | Suruchi             | Detection of Calcification in Intra-vascular Images                                  | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar | Computer Science & Engineering   | 96336582160 | Kumud Sachdeva      | A Technique for Glass Defect Detection                                               | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar | Information Technology           | 1268529     | Manjeet Kaur        | Incorporating Revised Bloom's Taxonomy for Outcome Based Education using Data Mining | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar | Information Technology           | 1168194     | Sandeep Kaur        | An Enhanced Stenography Method for Digital Images                                    | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar | Computer Science and Engineering | 1312082     | Suruchi             | Detection of Calcification in Intra-vascular Images                                  | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |

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|----------------------|----------------------------------|--------------|------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Akshay Girdhar       | Computer Science and Engineering | 1351526      | Hanisha          | Fingerprint Image Enhancement using Morphological Operations                              | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science and Engineering | 1411647      | Mehak Sood       | A Novel Approach for Fingerprint Enhancement using Spatial and Frequency Domain Filtering | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science and Engineering | 1508495      | Geetika Gupta    | A Robust Passive Method for Detection of Copy-Move Forgery in Images                      | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science and Engineering | 1508501      | Rajdeep Kaur     | Wavelet Based Algorithm for the Identification of Rainmass from Radar Images              | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science and Engineering | 1508503      | Roopali Kalra    | Detection of Convective Cloud Movement                                                    | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science and Engineering | 1508507      | Staffi Verma     | Real-Time Eye Detection and Tracking Method for Driver Assistance System                  | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science and Engineering | 1508508      | Sukhpreet Kaur   | Computer Vision Based Vegetable Grading and Sorting System                                | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science and Engineering | 1351519      | Amandeep Kaur    | Incorporating Rubric Assessment Tool for Outcome Based Education using Data Mining        | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering   | 100376580238 | Simranjeet Singh | A New Architectural Design for Telemedicine System to Improve Rural Health Issues         | Punjab Technical University, Jalandhar             | Awarded |

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|----------------------|--------------------------------|--------------|---------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------|---------|
| Kulvinder Singh Mann | Computer Science & Engineering | 100376580227 | Jagbir Singh        | A Novel System for Analyzing and Visualization of Multi Dimensional Relational Database for Medical Images | Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering | 100376580236 | Ranjeet Singh       | A Novel Framework for Authorization Schema in Medical Data for Grid Environment                            | Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering | 96336582167  | Parulpreet Singh    | To Propose and Implement a New Model of Image Retrieval Form CBIR System                                   | Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering | 96336582150  | Amanpreet Singh     | SVM based approach for Reusability Evolution of Object Oriented based Software Components                  | Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Information Technology         | 110377482750 | Gursimrat Kaur      | Aspects of content based HL7 messages for Hospital Information Systems                                     | Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Information Technology         | 100377482759 | Mohanjit Kaur       | Iterative Algorithms for Extraction and Data Visualization of HL7 Data                                     | Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering | 1168058      | Rajveer Kaur        | A New Approach to Image Retrieval based on DICOM Images for Medical Data                                   | Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Information Technology         | 1168187      | Navjot Kaur Sekhon  | A Novel Framework for Remote Patient Monitoring using Telemedicine Healthcare System                       | Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Information Technology         | 1168197      | Simrat Kaur Khokhar | A Retrospective Framework for Medical CBIR System                                                          | Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Information Technology         | 1168177      | Gurpreet Singh      | Design of New Architecture for Document Exchange support of HIS                                            | Punjab Technical University, Jalandhar | Awarded |

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|----------------------|--------------------------------|--------------|---------------------|-----------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Kulvinder Singh Mann | Information Technology         | 96337482313  | Sarvesh Chopra      | Optimal Solution for solving np-complete Problem                                  | Punjab Technical University, Jalandhar             | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering | 100376582189 | Rubina Iqbal        | A Novel framework for CBIR systems for Medical Data                               | Punjab Technical University, Jalandhar             | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering | 10131278     | Jagreet Kaur        | AI based healthcare platform for real time, predictive and prescriptive analytics | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Hardeep Singh Rai    | Computer Science & Engineering | 1303057      | Bhupinder Kaur Srao | Exploiting BIM's Potential for Approval                                           | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering | 1303083      | Hardeep Singh Kang  | Novel Framework for Large Astronomical Dataset: Astropig                          | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering | 10126125     | Sukhpreet Kaur      | Computer Aided Diagnosis for Segmentation of blood vessels in Retinal Images      | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering | 1403014      | Amandeep Kaur       | Cloud Enabled Radiology Integration System and Service Architecture               | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering | 13100021     | Jagbir Singh        |                                                                                   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Manpreet Singh       | Computer Science & Engineering | 10376580239  | Sonam Sharma        | Implementing C5 Algorithm for Human Protein Function Prediction                   | Punjab Technical University, Jalandhar             | Awarded |
| Manpreet Singh       | Computer Science & Engineering | 10376580233  | Neha                | Distributed Environment for Protein Function Prediction using C4.5 Algorithm      | Punjab Technical University, Jalandhar             | Awarded |

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|----------------|--------------------------------|-------------|------------------|-------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Manpreet Singh | Information Technology         | 10377482742 | Avinash Kaur     | Performance Analysis of Decision Tree Algorithms for uncertain datastes             | Punjab Technical University, Jalandhar             | Awarded |
| Manpreet Singh | Information Technology         | 96337482318 | Harmandeep Singh | Securing MANETS Routing Protocol under Black Hole Attack                            | Punjab Technical University, Jalandhar             | Awarded |
| Manpreet Singh | Computer Science & Engineering | 10376582200 | Gurjit Kaur      | Phylogenetic Tree for Protein Function Prediction                                   | Punjab Technical University, Jalandhar             | Awarded |
| Manpreet Singh | Information Technology         | 10377482743 | Mandeep Kaur     | Optimization of Load Dispatch Problem using different variants of Genetic Algorithm | Punjab Technical University, Jalandhar             | Awarded |
| Manpreet Singh | Computer Science & Engineering | 1268406     | Shaifu Gupta     | Phylogenetic Method for High-Throughput Ortholog Detection                          | Punjab Technical University, Jalandhar             | Awarded |
| Manpreet Singh | Information Technology         | 1168192     | Puneet Kaur      | Soft Computing Approach for Economic Load Dispatch                                  | Punjab Technical University, Jalandhar             | Awarded |
| Manpreet Singh | Computer Science & Engineering | 1203029     | Parneet Kaur     | Developing and Aggregate Ranking Measure for Performance Improvement of Meta Search | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Manpreet Singh | Computer Science & Engineering |             | Sukhdeep Kaur    | Ortholog and Paralogs Detection using Phylogenetic Tree                             | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Manpreet Singh | Information Technology         |             | Arshdeep Kaur    | A Novel Approach of Phylogenetic Tree Construction using R                          | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Manpreet Singh | Computer Science & Engineering |             | Manroop Kaur     | Distributed Resource Management and Scheduling in a Global Computational Power Grid | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |

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|----------------------|--------------------------------|---------|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Manpreet Singh       | Computer Science & Engineering |         | Avtar Singh             | Randomized Energy Efficient Chain based Protocol for Wireless Sensor Network                                                        | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Manpreet Singh       | Information Technology         |         | Hitesh Nayyar           | Distance based Energy Efficient Clustered Routing Protocol in Heterogeneous Wireless Sensor Network                                 | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Ajay Shiv Sharma     | Computer Science & Engineering | 1503027 | Harvinder Singh Sohal   |                                                                                                                                     | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering | 1303054 | Harinder Singh Dhaliwal | Design of a framework for secure medical data sets using HADOOP                                                                     | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Manpreet Singh       | Computer Science & Engineering | 1503020 | Amandeep Kumar          |                                                                                                                                     | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Manpreet Singh       | Computer Science & Engineering | 1503019 | Harmandeep Singh        |                                                                                                                                     | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Manpreet Singh       | Computer Science & Engineering |         | Avinash Kaur            | Data Placement Aware Scheduling for Scientific Workflow in Cloud Computing                                                          | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Jagroop Singh        | Computer Science & Engineering | 1403026 | Bindu Bansal            | Big Data Security                                                                                                                   | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti          | Computer Science & Engineering | 1403001 | Gagandeep Kaur Grewal   | A data mining approach to precise farmers' decision rules in crop production and impact assessment on agriculture in Punjab (India) | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |

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|-------------|--------------------------------|-------------|------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Kiran Jyoti | Computer Science & Engineering | 1403049     | Balwant Ram      | Proposal for DNA Sequence Algorithm using Map Reduce using GPU Cluster                                | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 1303028     | Deepak Prashar   | Performance Analysis of Secure Localization Techniques in Wireless Sensor Network                     | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 41400206    | Shabnam Sharma   | Various Approaches for handling Multiple Targets using Nature Inspired Intelligence                   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 41400088    | Parminder Singh  | Resource Provisioning for Multi-Tier Web Applications based on Workload Prediction in Cloud Computing | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 96336582145 | Shikha Verma     | A Novel Approach to perform statistical Data Clustering using PSO                                     | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 96336582162 | Pinderjeet Kaur  | Content based Image Retrieval System for CAD jewellery images                                         | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 96336582154 | Harpreet Kaur    | Model for reducing Semantic Gap in content based image retrieval for SAR images                       | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 96336582132 | Nidhi Bhatla     | Design and Implementation of a Novel approach for heart disease prediction system using Data Mining   | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 96336582159 | Ramandeep Sandhu | A Novel Method of Opinion Mining for Product Opinions                                                 | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 80101107040 | Kanika Sharma    | Image Denoising based on Curvlets Transforms and its Comparative Study with basic Filters             | Punjab Technical University, Jalandhar             | Awarded |



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|----------------------|--------------------------------|-------------|----------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Kiran Jyoti          | Computer Science & Engineering | 80101107033 | Daljit Kaur    | Enhancement in the Performance of K-Means Algorithm                                                                  | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti          | Information Technology         | 96337482322 | Harneet Kaur   | Design and Implementation of Hybrid Algorithm for E-News Classification                                              | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti          | Computer Science & Engineering | 1268401     | Nancy          | A Novel approach of Sentiment Mining for Service Opinions                                                            | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti          | Computer Science & Engineering | 1312073     | Prabhat Kumar  | Design and Analysis of Recommender System for Business Data                                                          | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti          | Computer Science & Engineering | 1168029     | Amanjot Kaur   | A Novel Algorithm for semisupervised classification of Remote Sensing Images                                         | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti          | Computer Science & Engineering | 1312078     | Shubpreet Kaur | Detecting a Malicious insider in the cloud environment                                                               | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti          | Computer Science & Engineering | 96336582136 | Simranjit Kaur | A Novel algorithm for correcting lexical error in data mining using levenshtein distance and heirarchical clustering | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti          | Information Technology         | 1168193     | Reema          | Opinion mining for finding non useful opinions in product evaluation                                                 | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti          | Computer Science & Engineering | 1168068     | Tejinder       | Emotion Mining based on gender segregation on social networking site                                                 | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti          | Information Technology         | 96337482311 | Rajwant Kaur   | A Data Mining tool for analysing the performance of enterprise CRM system                                            | Punjab Technical University, Jalandhar             | Awarded |
| Sandeep Kumar Singla | Information Technology         |             | Rupinder Kaur  | Predicting the depression in human behaviour using data mining                                                       | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |

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| Sandeep Kumar Singla  | Computer Science & Engineering |              | Prince Pal Kaur  | Improved Prediction of Student Academic Performance using Data Mining       | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Sandeep Kumar Singla  | Computer Science & Engineering |              | Nancy Gupta      | Enhanced with Data Encryption Method in Multi Model Bio Metric System       | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Sandeep Kumar Singla  | Computer Science & Engineering |              | Hardeep Kaur     | Iris Recognition System                                                     | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Ajay Shiv Sharma      | Computer Science & Engineering |              | Karamjit Singh   | Trained Alternate Decision Tree Classification for Breast Cancer Dataset    | Punjab Technical University, Jalandhar             | Awarded |
| Raninder Kaur Dhillon | Computer Science & Engineering |              | Anisha Rani      | Detecting Semantci Model Clones in UML Domain Models                        | Punjab Technical University, Jalandhar             | Awarded |
| Amit Kamra            | Computer Science & Engineering | 96336582168  | Suman Thapar     | A novel method of denosing natural images using curvlets                    | Punjab Technical University, Jalandhar             | Awarded |
| Amit Kamra            | Computer Science & Engineering | 100376580229 | Kanchan Rani     | An improved method for image enhancement using fuzzy approach               | Punjab Technical University, Jalandhar             | Awarded |
| Amit Kamra            | Information Technology         | 96337482314  | Deepali          | Biometrics Protection system based on IRIS detection                        | Punjab Technical University, Jalandhar             | Awarded |
| Amit Kamra            | Computer Science & Engineering | M-61403201   | Pawanpreet Kaur  | An Optimal Approach to alleviate the problem of over segmentation           | Punjab Technical University, Jalandhar             | Awarded |
| Amit Kamra            | Computer Science & Engineering | 100376582187 | Simranpreet Kaur | A Novel method for segmentation of ultrasound images                        | Punjab Technical University, Jalandhar             | Awarded |
| Akshay Girdhar        | Information Technology         | 1168040      | Harbhag Singh    | A Framework for assesment of outcome based educaion model using data mining | Punjab Technical University, Jalandhar             | Awarded |

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|------------|--------------------------------|--------------|-----------------|---------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Amit Kamra | Information Technology         | 1168181      | Jagdeep Singh   | Intelligent Heart Diseases based prediction system                                          | Punjab Technical University, Jalandhar             | Awarded |
| Amit Kamra | Computer Science & Engineering | 1268403      | Pragya          | Enhancement of masses in mammograms                                                         | Punjab Technical University, Jalandhar             | Awarded |
| Amit Kamra | Computer Science & Engineering | 1268404      | Ramneet Kaur    | Morphology based enhancement of medical images: A Novel Approach                            | Punjab Technical University, Jalandhar             | Awarded |
| Amit Kamra | Computer Science & Engineering | 100376582193 | Hema Aggarwal   | Robust Watermarking using Singular Value decomposition and multiresolution analysis         | Punjab Technical University, Jalandhar             | Awarded |
| Amit Kamra | Computer Science & Engineering | 1168046      | Japneet Singh   | Characterization of Microcalcifications in mammograms- A Novel Approach                     | Punjab Technical University, Jalandhar             | Awarded |
| Amit Kamra | Computer Science & Engineering | 100376582812 | Tamanna Bhatia  | A Hybrid Algorithm of image fusion based on wavelet transform                               | Punjab Technical University, Jalandhar             | Awarded |
| Amit Kamra | Computer Science & Engineering | 1268373      | Kuljeet Kaur    | De-Noising of X ray Images using multiscale Morphology                                      | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Amit Kamra | Computer Science & Engineering | 1268374      | Mananpreet Kaur | A novel approach for contrast Enhancement of gray scale images using multiscale morphology. | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Amit Kamra | Computer Science & Engineering | 1268378      | Poonam          | Investigation of ROI Size and Location to Classify Mammograms                               | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Amit Kamra | Computer Science & Engineering | 1268380      | Ravinder        | Segmentation of MRI brain images for tumor detection- A novel approach                      | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |

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|----------------------|--------------------------------|---------|-----------------|------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Manpreet Kaur Grewal | Computer Science & Engineering | 1268668 | Gurpreet Kaur   | An efficient approach for segmentation of overlapped characters for handwritten gurmukhi text. | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Jagdeep Singh        | Information Technology         | 1168179 | Heena Arora     | Performance evaluation improvement of data mining in weka through GPU acceleration             | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Jagdeep Singh        | Information Technology         | 1351495 | Anu             | Student performance prediction using Fuzzy mean algorithm in data mining                       | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Jagdeep Singh        | Information Technology         | 1411719 | Ruchi Bansal    | Prediction of heart disease based on data mining                                               | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Jagdeep Singh        | Information Technology         | 1351507 | Harmandeep Kaur | Improvement of K-Mean clustering Algorithm using Map reduce Paradigm                           | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Jagdeep Singh        | Information Technology         | 1351497 | Aradhana Pathak | Enhancement of Arbitrary Shaped Clusters using Data Mining                                     | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Jagdeep Singh        | Information Technology         | 1539314 | Manan Kawatra   | Crop Yielding prediction approach                                                              | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Ranjodh Kaur         | Computer Science & Engineering | 1539333 | Priya Arora     | Water Quality Monitoring Approach using Data mining in Sensor Networks                         | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Jagdeep Singh        | Information Technology         | 1539311 | Harmanjot Kaur  | LUNG CANCER DIAGNOSTIC APPROACH USING DATA MINING                                              | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |

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|----------------|--------------------------------|--------------|------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Pankaj Bhambri | Computer Science & Engineering | 100376580226 | Franky Goyal     | Development of the Phylogenetic Tree based on Kimura's Method                             | Punjab Technical University, Jalandhar             | Awarded |
| Pankaj Bhambri | Computer Science & Engineering | 100376580235 | Prerna           | Secondary Structure Prediction of Amino Acids using GOR Method on different Input Formats | Punjab Technical University, Jalandhar             | Awarded |
| Pankaj Bhambri | Computer Science & Engineering | 71403095     | Shaminder Singh  | Temporal Weather Prediction using back Propagation based Genetic Algorithm Technique      | Punjab Technical University, Jalandhar             | Awarded |
| Pankaj Bhambri | Computer Science & Engineering | 100376580228 | Jasmine Kaur     | Distance based Phylogenetic Tree Constructon using Heuristic Techniques                   | Punjab Technical University, Jalandhar             | Awarded |
| Pankaj Bhambri | Computer Science & Engineering | 71403097     | Vishal Paika     | Face Recognition using Neural and Fuzzy Techniques                                        | Punjab Technical University, Jalandhar             | Awarded |
| Pankaj Bhambri | Computer Science & Engineering | 96336582122  | Amandeep Kaur    | A Novel Technique for Robust Image Segmentation                                           | Punjab Technical University, Jalandhar             | Awarded |
| Pankaj Bhambri | Computer Science & Engineering | 1168056      | Pradeep Kaur     | To Design and Implement an Algorithm using Zero Watermarking for Text Documents           | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Pankaj Bhambri | Computer Science & Engineering | 100376580232 | Meenakshi Sharma | An Efficient Approach of Differentiating GENE Prediction Program                          | Punjab Technical University, Jalandhar             | Awarded |
| Kamaljit Kaur  | Computer Science & Engineering | 80101107035  | Randeep Kaur     | Grayscale Image watermark detection                                                       | Punjab Technical University, Jalandhar             | Awarded |
| Kamaljit Kaur  | Computer Science & Engineering | 100376580240 | Sukhdip Kaur     | Multifocus Image Fusion                                                                   | Punjab Technical University, Jalandhar             | Awarded |
| Kamaljit Kaur  | Computer Science & Engineering | 1268395      | Jasdeep Kaur     | Content based Retrieval of positive images from clinical database                         | Punjab Technical University, Jalandhar             | Awarded |

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| Kamaljit Kaur   | Computer Science & Engineering   | 100376582177 | Savneet Kaur           | Detection of Vehicle Registration Plate from Video                                             | Punjab Technical University, Jalandhar             | Awarded |
| Kamaljit Kaur   | Computer Science & Engineering   | 96336582164  | Kirandeep Kaur         | Image Steganography in Fuzzy domain using chromatic adaptation transforms                      | Punjab Technical University, Jalandhar             | Awarded |
| Kamaljit Kaur   | Computer Science & Engineering   | 100376582195 | Prabhjot Kaur          | Land Cover Feature Extraction and Analysis using Biogeography based Optimization               | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kamaljit Kaur   | Computer Science & Engineering   | 1351506      | Harmandeep Kaur        | Data mining and web scraping using naive bayes algorithm                                       | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Manjot Kaur     | Computer Science & Engineering   | 1268394      | Jaismine Jassal        | Speech Enhancement of Punjabi Language at Phoneme Level Using DSP Techniques                   | Punjab Technical University, Jalandhar             | Awarded |
| Akshay Girdhar  | Computer Science & Engineering   | 1411646      | Jeevan Bhatia          | A Framework for Indirect Assessment Tool for Outcome Based Education using Data Mining         | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Inderjeet Singh | Computer Science & Engineering   |              | Harsimran Singh        | A Novel approach to test Automation in Scaled Agile Framework                                  | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar  | Computer Science and Engineering | 1508505      | Simranjeet Kour Bindra | Outcome Based Predictive Analysis of Automated Question Paper using Data Mining                | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar  | Computer Science & Engineering   | 1351530      | Kamaldeep Kaur         | Assessment of Social Media Impact on Teaching and Learning using Data Mining                   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar  | Information Technology           | 1351508      | Harmanjeet Kaur        | Modelling Student Performance for urban and rural student using hybrid approach of data mining | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |

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|----------------------|----------------------------------|---------|-------------------|-----------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Akshay Girdhar       | Information Technology           | 1351501 | Divya             | A hybrid approach for sentimental analysis of twitter data using data mining      | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Inderjeet Singh      | Computer Science & Engineering   |         | Nitika Basil      | Predictive policing of crime against women using hybrid approach of data mining   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science & Engineering   |         | Simranjeet Kour   | Outcome based predictive analysis of automated question paper using data mining   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science and Engineering | 1411639 | Amanjot Kaur      | An Innovative Advent for Content Based Ultrasound Image Retrieval Using ANN       | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science and Engineering | 1351524 | Gurpinder Kaur    | Hadoop Approach to Cluster Based Cache Oblivious Peano Curves                     | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science and Engineering | 1351533 | Manmeet Kaur      | Cluster Based Approach to Cache Oblivious Average Filter Using RMI                | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science and Engineering | 1508509 | Upasna Sharma     | Performing Analytics on Healthcare Data using Hadoop Hive                         | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering   | 1303064 | Ranbir Singh Bath | Minimize the collision in TDMA Based VANETs and Improved Quality of Service (QoS) | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kulvinder Singh Mann | Computer Science & Engineering   | 1303063 | Sushil Kamboj     | Design Strategy for minimizing the effect of Denial of Service attacks in VANETs  | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |

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|----------------------|--------------------------------|----------|------------------------|-------------------------------------------------------------------|----------------------------------------------------|---------|
| Kulvinder Singh Mann | Computer Science & Engineering | 3479-DBU | Hardeep Singh Jawanda  | Regional language character mapper under open source Technologies | Desh Bhagat University, Fatehgarh Sahib            | Awarded |
| Akshay Girdhar       | Computer Science & Engineering | 1303080  | Vanit Kaur Bhatia      |                                                                   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science & Engineering | 1103005  | Rajdeep Singh          |                                                                   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science & Engineering | 1103008  | Dinesh Kumar           |                                                                   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science & Engineering | 1203002  | Jasmeen Gill           |                                                                   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science & Engineering | 1603004  | Inderjeet Singh Bamrah |                                                                   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science & Engineering | 1613004  | Ritu Ahuja             |                                                                   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Akshay Girdhar       | Computer Science & Engineering | 1403022  | Navdeep Kanwal         |                                                                   | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kiran Jyoti          | Computer Science & Engineering | 1503037  | Prince Verma           | data mining and Big Data analytics                                | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |



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|--------------|----------------------------------|---------|-------------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Kiran Jyoti  | Computer Science & Engineering   | 1403026 | Bindu Bansal      | Image/Video image dehazing                                                                                                | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Amit Kamra   | Computer Science & Engineering   | 1603006 | Richa Sharma      | COMPUTER AIDED DESIGN FOR DETECTION OF BREAST CANCER USING INFORMATION FUSION                                             | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Amit Kamra   | Computer Science & Engineering   | 1603005 | Manjot Kaur       | An Approach Based on Computer Aided Design for Detection of Diabetic Retinopathy in Fundus Images                         | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Amit Kamra   | Computer Science & Engineering   | 1214022 | Sakshi Dua        | Punjabi based Automatic Speech Recognition development for Gurudwara Sahib in Punjab: Emphasizing on Hymns & Announcement | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Amit Kamra   | Computer Science & Engineering   | 1314055 | Kamal Nain Sharma | Computer Aided Diagnosis of Abnormalities in Mammogram                                                                    | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Sachin Bagga | Computer Science and Engineering | 1411639 | Amanjot Kaur      | An Innovative Advent for Content Based Ultrasound Image Retrieval Using ANN                                               | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |

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|--------------|----------------------------------|---------|------------------|-------------------------------------------------------------------------|----------------------------------------------------|---------|
| Sachin Bagga | Computer Science and Engineering | 1351524 | Gurpinder Kaur   | Hadoop Approach to Cluster Based Cache Oblivious Peano Curves           | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Sachin Bagga | Computer Science and Engineering | 1351533 | Manmeet Kaur     | Cluster Based Approach to Cache Oblivious Average Filter Using RMI      | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Sachin Bagga | Computer Science and Engineering | 1508509 | Upasna Sharma    | Performing Analytics on Healthcare Data using Hadoop Hive               | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Sachin Bagga | Computer Science and Engineering | 1411665 | Ms. Nidhi Sharna | NOVEL APPROACH FOR DENOISING USING HADOOP IMAGE PROCESSING INTERFACE    | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Sachin Bagga | Computer Science and Engineering | 1411639 | Ms. Amanjot Kaur |                                                                         | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Amit Kamra   | Information Technology           | 1411712 | Sauyma Madan     | Data Mining based approach for diabetes Prediction                      | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Amit Kamra   | Information Technology           | 1411711 | Lovepreet Kaur   | Sentiment Analysis of Social Media data using hybrid Approach           | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Amit Kamra   | Information Technology           | 1411714 | Prabhjot Kaur    | A Novel Approach to Improve the performace of Student Prediction System | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Amit Kamra   | Information Technology           | 1411713 | Harmandeep Kaur  | New Eclat Algorithm based on Map reduce Framework                       | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |

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|-------------|--------------------------------|-------------|-------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| Kiran Jyoti | Computer Science & Engineering | 96337482312 | Sukhmeet Kaur     | A cloud based tool for prediction of Car manufacturing Industry and Distribution                        | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 71403089    | Navrit Kaur Johal | A Novel Method for core point detection on a fingerprint image                                          | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 80101107016 | Saurav Sharma     | A New fast and efficient technique for Medical Image compression                                        | Punjab Technical University, Jalandhar             | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 1351528     | Harsimran Singh   | A Novel approach to test automation in scaled agile framework                                           | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 1351541     | Sumit Malhotra    | A Novel Decision Support System for Textile Industry using Hybrid Meta-Heuristic Optimization Technique | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 1351516     | Shairy            | A Novel Mutation Tracking System of Punjab Cable Industry Digitization using Data Analytics             | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kiran Jyoti | Information Technology         | 1411712     | Maninder Kaur     | Improvement in DBSCAN algorithm to reduce execution time and increase accuracy                          | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 1268396     | Jatinder Kaur     | Development of a Technique for Gender Recognition on Twitter Users                                      | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 1607504     | Neha Gupta        | Prediction of Socio-Economic Status Using Aspect Based Learning                                         | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |
| Kiran Jyoti | Computer Science & Engineering | 1607497     | Kaishveen Kaur    | Prediction Analysis of Crime in India Using a Hybrid Clustering Approach                                | I.K. Gujral Punjab Technical University, Jalandhar | Awarded |

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|---------------|--------------------------------|---------|---------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------|
| Kamaljit Kaur | Information Technology         | 1411713 | Manpreet Kaur | Prediction of Plant Disease from weather forecasting using data mining                | I.K. Gujral Punjab Technical University, Jalandhar                     | Awarded |
| Kamaljit Kaur | Information Technology         | 1411720 | Rupinder Kaur | Prediction of crop yield using LS-SVM                                                 | I.K. Gujral Punjab Technical University, Jalandhar                     | Awarded |
| Kamaljit Kaur | Information Technology         | 1411718 | Ripanjit Kaur | Predicting Demographic user using social network site                                 | Water Quality Monitoring Approach using Data mining in Sensor Networks | Awarded |
| Hanit Karwal  | Computer Science & Engineering | 163434  | Mandeep kaur  | Image Quality Improvement based on Face Spoofing Detection using Optimized QDA Method | I.K. Gujral Punjab Technical University, Jalandhar                     | Awarded |
| Jagdeep Singh | Information Technology         | 1411673 | Nitika Basil  | Prediction policing of Crime Against Women using Hybrid Approach of data mining       | I.K. Gujral Punjab Technical University, Jalandhar                     | Awarded |
| Jagdeep Singh | Information Technology         | 1268518 | Ekta Sharma   | Categorization of Consumer Affinity Card Using Data Mining Algorithms                 | I.K. Gujral Punjab Technical University, Jalandhar                     | Awarded |
| Jagdeep Singh | Information Technology         | 1539314 | Manan Kawatra | Wheat Yield Prediction approach using Data Mining                                     | I.K. Gujral Punjab Technical University, Jalandhar                     | Awarded |