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| **Project Title** | **PhD** | **Students** | **Publication** | **Other Information** |
| **Student** |
| Design of Genetic | Arpit | Simmi |  | 130001034 |
| Programming Algorithm | Bhardwaj | Malhan |  |
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| handling Big Data |  |  |  |
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| Programming | Bhardwaj | Pancily, | in |
|  |  | Kunal |  |
|  |  | Chaudhary | kunalchaudhary.iit@ |
|  |  |  | gmail.com |
| Quantum inspired fuzzy | Om | [Sudharsan](https://plus.google.com/u/1/116997243727242615664?prsrc=4) |  |  |
| based Neural Network | Prakash | [Kumar](https://plus.google.com/u/1/116997243727242615664?prsrc=4) | k.sudharsan1997@g |
| for multiclass | Patel and |  | mail.com |
| Classification Problems | Neha |  |  |
|  | Bharill |  |  |
|  | Patel |  |  |
| Quantum inspired Meta | Om | Ramesh |  |  |
| Cognitive Neural | Prakash | Balaji | [ee140002025@iiti.ac](mailto:ee140002025@iiti.ac) |
| Network | Patel |  | .in |
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| Food vs Non-Food | Chandan | Tilak |  | [cse130001037@iiti.a](mailto:cse130001037@iiti.a) |
| Classification | Gautam | Lodha & | c.in |
|  |  | Sharang | & |
|  |  | Dev Kalsi | [cse130001032@iiti.a](mailto:cse130001032@iiti.a) |
|  |  |  | c.in |
| Speaker verification By | Chandan | Ramesh |  | [ee140002025@iiti.ac](mailto:ee140002025@iiti.ac) |
| One-class Classification | Gautam | Balaji& | .in |
|  |  | Siddharth | & |
|  |  | Shankar | [cse140001032@iiti.a](mailto:cse140001032@iiti.a) |
|  |  | Prasad | c.in |
| Intrusion Detection for | Chandan | Varun |  | [cse140001037@iiti.a](mailto:cse140001037@iiti.a) |
| Big Data Environment | Gautam | Joglekar & | c.in |
|  |  | Shubham | & |
|  |  | Goyal | [cse140001031@iiti.a](mailto:cse140001031@iiti.a) |
|  |  |  | c.in |
| Medical Diagnosis | Chandan | Chaware |  | [cse130001009@iiti.a](mailto:cse130001009@iiti.a) |
| Expert System | Gautam | Ketan | c.in |
| (MEDEX) using One- |  | Uday |  |
| class Classification along |  | & | & |
| with Statistical |  | Vishwajeet |  |
| Algorithm |  | Singh | [cse130001040@iiti.a](mailto:cse130001040@iiti.a) |
|  |  | Thakur | c.in |
| Multi-task using One- | Chandan | Dhruv |  | [cse130001010@iiti.a](mailto:cse130001010@iiti.a) |
| class Classification | Gautam | Ahuja | c.in |
|  |  |  | Combine work under |
|  |  |  | supervision of Dr. |
|  |  |  | Kapil Ahuja |
| Motif Mining of | Animesh | Vraj Shah |  | [cse1200131@iiti.ac.i](mailto:cse1200131@iiti.ac.i) |
| Software repositories | Chaturvedi | n |
| Deep Learning of | Animesh | B Krishna |  | [ee1200206@iiti.ac.in](mailto:ee1200206@iiti.ac.in) |
| Software repositories | Chaturvedi | Chaitanya | , |
|  |  | & | [me1200315@iiti.ac.i](mailto:me1200315@iiti.ac.i) |
|  |  | Harsh | n |
|  |  | Mohan |  |
| Big Data Analytics of | Animesh | Kunal |  | [cse140001011@iiti.a](mailto:cse140001011@iiti.a) |
| Software repositories | Chaturvedi | Gupta and | c.in |
|  |  | Aditya Jain |  |

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| Active Learning of | Animesh | Kalyan |  | | [cse140001011@iiti.a](mailto:cse140001011@iiti.a) |
| Software repositories | Chaturvedi | Garikapati | c.in |
|  |  | Juhi Naik | Presented poster based on AI minor project in the event | |  |
| <http://iursymposium.org/2014/02/09/poster-and-symposium-> | |
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| Quantum Based Neural | Om | Vikram | O.P Patel and A. Tiwari, R. Chaudhary, S. V. Nuthalapati, N. | | vikramdpatel95@gm |
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| Big Data Environment | Gautam | Vinaya, | c.in, |
|  |  | Shubham | [cse140001031@iiti.a](mailto:cse140001031@iiti.a) |
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|  |  | Kumar | mail.com |
| Type-2 Fuzzy and | Chandan | Raman |  | | [cse140001025@iiti.a](mailto:cse140001025@iiti.a) |
| Kernel Ridge Regression | Gautam | Bansal, | c.in, |
| based One-class |  | Vedaanta | [cse140001038@iiti.a](mailto:cse140001038@iiti.a) |
| Classification for Non- |  | Agarwalla, | c.in, |
| stationary Environment |  | and Ruchir | [cse140001028@iiti.a](mailto:cse140001028@iiti.a) |
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| A Fast Adaptive | Chandan | Raman | Chandan Gautam, Raman Bansal, Ruchir Garg, Vedaanta | | [cse140001025@iiti.a](mailto:cse140001025@iiti.a) |
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| stationary Data Stream |  | Garg |  | | c.in |
| Multilabel Classification | Vikas | Shivam |  | | [cse150001034@iiti.ac](mailto:cse150001034@iiti.ac)  . |
| using Single Layer | Chauhan | Tayal, | in, |
| Feed forward Neural |  | Shreshta | [ee150002034](mailto:ee150002034@iiti.ac.in) @iiti.ac |
| Networks |  | Kumar | .in, |
| Multi-label classiﬁcation | Vikas | Sahaj |  | | [cse140001037@iiti.a](mailto:cse140001037@iiti.a) |
| of genome data | Chauhan | Khandelwal, | c.in, |

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| using soft computing |  | Niranjan |  | [cse140001031@iiti.a](mailto:cse140001031@iiti.a) |
| Goyal | c.in |
| Multi-Label Classification | Vikas | Suyash |  | [ee160002011](mailto:ee160002011@iiti.ac.in)@iiti.a |
| for Genome Sequence | Chauhan | Mahesh | c.in, |
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| Multi label classification for image using deep visual semantic embedding | Vikas Chauhan | Vislavath Naik, Boppudi Venkata |  | [cse170001057@iiti.ac](mailto:cse170001057@iiti.ac.in)  [.in,](mailto:cse170001057@iiti.ac.in) [cse170001016@iiti.ac](mailto:cse170001016@iiti.ac.in)  [.in](mailto:cse170001016@iiti.ac.in) |
| Multi Strategy Differential Evolution for Multimodal Problems | Suchitra Agrawal | Ronak Bandwal, Sharath P, Sahej Ganeriwala |  | [cse170001041@iiti.ac](mailto:cse170001041@iiti.ac.in)  [.in,](mailto:cse170001041@iiti.ac.in) [cse170001033@iiti.ac](mailto:cse170001033@iiti.ac.in)  [.in,](mailto:cse170001033@iiti.ac.in) [cse170001042@iiti.ac](mailto:cse170001042@iiti.ac.in)  [.in](mailto:cse170001042@iiti.ac.in) |
| Disease Prediction using CNN | Suchitra Agrawal | Dhruv Singhal, Karthik Malisetty, Katuri Prudhvi  Kiran |  | [cse170001022@iiti.ac](mailto:cse170001022@iiti.ac.in)  [.in,](mailto:cse170001022@iiti.ac.in) [cse170001028@iiti.ac](mailto:cse170001028@iiti.ac.in)  [.in,](mailto:cse170001028@iiti.ac.in) [cse170001027@iiti.ac](mailto:cse170001027@iiti.ac.in)  [.in](mailto:cse170001027@iiti.ac.in) |
| Hybrid Deep Fuzzy Clustering Algorithms for Handling huge Protein Sequences using Apache Spark | Preeti Jha | Sudhanshu Arya , Tanmay Singh,  Vaibhav Anand | Preeti Jha, Aruna Tiwari, Neha Bharill, Milind Ratnaparkhe, Om Prakash Patel, Vaibhav Anand, Sudhanshu Arya, and Tanmay Singh, [**Scalable Deep Fuzzy Clustering Algorithm for Protein Data**](https://iiti.ac.in/people/~artiwari/conf.html), 19th IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology,Ottawa, Canada, pp. 1-8, 2022 | [cse170001050@iiti.ac](mailto:cse170001050@iiti.ac.in)  [.in,](mailto:cse170001050@iiti.ac.in) [cse170001051@iiti.ac](mailto:cse170001051@iiti.ac.in)  [.in,](mailto:cse170001051@iiti.ac.in) [cse170001053@iiti.ac](mailto:cse170001053@iiti.ac.in)  [.in](mailto:cse170001053@iiti.ac.in) |

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| Scalable Machine Learning Algorithms for Handling huge Genome Data | Preeti Jha | Rapolu Pulakitha, Aditi Chauhan | 1. Preeti Jha, Aruna Tiwari, Neha Bharill, Milind Ratnaparkhe, Om Prakash Patel, Aditi Chauhan, Namani Sreeharsh, Rapolu Pulakitha, and Sawarkar Saloni, [**Scalable Feature Extraction and Fuzzy Clustering for Large RNAseq Analysis on High-Performance Computing**](https://iiti.ac.in/people/~artiwari/conf.html), IEEE Symposium Series On Computational Intelligence 2022, December 4-7, Singapore  2. Preeti Jha, Aruna Tiwari, Neha Bharill, Milind Ratnaparkhe, Om Prakash Patel, Rapolu Pulakitha, and Aditi Chauhan, [**High-Performance Computing based Scalable Online Fuzzy Clustering Algorithms for Big Data**](https://iiti.ac.in/people/~artiwari/conf.html), IEEE Symposium Series On Computational Intelligence 2022, December 4-7, Singapore | [cse180001041@iiti.](mailto:cse180001041@iiti.ac.in)  [ac.in](mailto:cse180001041@iiti.ac.in), [cse180001045@iiti.](mailto:cse180001045@iiti.ac.in) [ac.in](mailto:cse180001045@iiti.ac.in),  [cse180001003@iiti.](mailto:cse180001003@iiti.ac.in) [ac.in](mailto:cse180001003@iiti.ac.in) |
| Scalable Clustering and Classification Algorithms for Massive Genome Sequences | Preeti Jha | Saloni Sawarkar, Namani Sreeharsh | 1. Preeti Jha, Aruna Tiwari, Neha Bharill, Milind Ratnaparkhe, Om Prakash Patel, Sawarkar Saloni, and Namani Sreeharsh, [**HPC based Scalable Logarithmic Kernelized Fuzzy Clustering Algorithms for Handling Big Data**](https://iiti.ac.in/people/~artiwari/conf.html), International Conference on Neural Information Processing (ICONIP) 2022, Nov 22-26, IIT Indore, India  2.Preeti Jha, Aruna Tiwari, Neha Bharill, Milind Ratnaparkhe, Om Prakash Patel, Aditi Chauhan, Namani Sreeharsh, Rapolu Pulakitha, and Sawarkar Saloni, [**Scalable Feature Extraction and Fuzzy Clustering for Large RNAseq Analysis on High-Performance Computing**](https://iiti.ac.in/people/~artiwari/conf.html), IEEE Symposium Series On Computational Intelligence 2022, December 4-7, Singapore | [cse180001048@iiti.](mailto:cse180001048@iiti.ac.in) [ac.in](mailto:cse180001048@iiti.ac.in), [cse180001032@iiti.](mailto:cse180001032@iiti.ac.in)  [ac.in](mailto:cse180001032@iiti.ac.in) |
| Multimodal optimization for multiobjective problem | Suchitra Agrawal | Bhaskar, Prashant Kumar Rajak |  | [cse180001012@iiti.ac](mailto:cse180001012@iiti.ac.in)  [.in,](mailto:cse180001012@iiti.ac.in) [cse180001037@iiti.ac](mailto:cse180001037@iiti.ac.in)  [.in](mailto:cse180001037@iiti.ac.in) |
| Deep Learning for video prediction | Rituraj | Shravya Ramasahaya m, Jagruthi Patibandla |  | [cse170001052@iiti.](mailto:cse170001052@iiti.ac.in) [ac.in](mailto:cse170001052@iiti.ac.in), [cse170001021@iiti.](mailto:cse170001021@iiti.ac.in)  [ac.in](mailto:cse170001021@iiti.ac.in) |
| Deep Learning through Generative Adversarial Neural Networks (Single Channel) | Rituraj | Jay Bangar, Aditi Garg, Sai Aravind Y |  | [cse180001022@iiti.](mailto:cse180001022@iiti.ac.in)  [ac.in](mailto:cse180001022@iiti.ac.in), [cse180001002@iiti.](mailto:cse180001002@iiti.ac.in) [ac.in](mailto:cse180001002@iiti.ac.in) |
| Deep Learning for Anomaly detection in Videos  (capsnet code) | Rituraj | Naman Jain, Vinesh Katewa, Roopraj B.S. |  | [cse180001022@iiti.](mailto:cse180001022@iiti.ac.in)  [ac.in](mailto:cse180001022@iiti.ac.in), [cse180001061@iiti.](mailto:cse180001061@iiti.ac.in) [ac.in](mailto:cse180001061@iiti.ac.in),  [cse180001043@iiti.](mailto:cse180001043@iiti.ac.in) [ac.in](mailto:cse180001043@iiti.ac.in) |
| Deep learning and Big Data | Preeti Jha | Deepali Sukhija  Deepika Sukhija  Anjali Gupta |  | cse190001009  cse190001010  cse190001004 |
| Big Data and Deep learning for Image Processing | Preeti Jha | Thudi Jadeja  Boyapati Hritikesh |  | cse190001064  ee190002014 |
| Scalable Features Extraction approach for the clustering and classification of genomics data | Rajesh Dwivedi | Parul Mogre  Pranjal Gadge  Kethavath Jagadeesh |  | cse190001037  me190003024  cse190001024 |
| Multiobjective Optimization based clustering approach for the genomics data | Rajesh Dwivedi | Rahul Mahbubani  Rishabh Soni  Saket Kumar |  | cse190001050  cse190001052  cse190001054 |
| Anomaly detection in Video uisng GAN | Rituraj | Anikeit Sethi  Krishanu Saini  Sai Mounika |  | CSE190001003  CSE190001029  CSE190001036 |
| Landslide detection | Rituraj | Arastu  Deepkamal Singh |  | cse190001006  cse190001011 |
| Ant Colony Optimisation for plant genomics in multi-objective manner | Rajesh Dwivedi | Saurabh Kumar Singh, Ayush Sinha, Prashant Kumar |  | 200001071  200001012  200001062 |
| Scalable machine learning for plant genome assembly for improving Crop quality | Preet Jha | Padamata kanishka sai, Allu Mrudula |  | 200001058  200001002 |
| Video Incident classification using Advanced Deep Learning architectures. | Rituraj | Mitika Bhadada,  Hritika |  | 200001046  200001029 |
| Key frame selection in Video using Deep learning methodology. | Rituraj | Kanchi Pardhi, Neha |  | 200001032  200001051 |
| High Performance Computing-enabled deep learning for phenotypic data in plants | Preet Jha | Nelavalli Sri Nikhitha, Koneti Anuhya, Kothuru Sharvani |  | 200001052  200001037  200001038 |
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