

**IT 604 Term Project I & CS 640 Tentative Term Project I Allocation**  
**Supervisor's preferred topics**  
**Autumn Semester - 2021**

| Serial No | Faculty Name            | Project Title/Topic                                                                           | Name                     | Roll     |
|-----------|-------------------------|-----------------------------------------------------------------------------------------------|--------------------------|----------|
| 1         | Prof. D.K.Saika         | SDN based edge computing network                                                              | Rupa Deka                | CSI20009 |
| 2         | Prof. D.K.Saika         | Caching mechanism for Named Data Networks                                                     | Prasurjya Sarma          | CSE20003 |
| 3         | Prof. D.K.Bhattacharyya | Blockchain in health-related data analysis.                                                   | Madan M Das              | CSI20010 |
| 4         | Prof. D.K.Bhattacharyya | Smart (IoT-enabled) and secure Food vehicle design                                            | Khushboo Das             | CSI20020 |
| 5         | Prof. S.Saharia         | CNN based gait analysis for covariate conditions                                              | Nayan Jyoti Kalita       | CSI20013 |
| 6         | Prof. S.Saharia         | Semantic segmentation for overlapping object detection                                        | Nayanjit Talukdar        | CSI20001 |
| 7         | Prof. Utpal Sharma      | Sentiment summarization of texts (combines conventional sentiment analysis and summarization) | Siddharth Das            | CSI20014 |
| 8         | Prof. Utpal Sharma      | Decomposition of complex and compound sentences for meaning representation                    | Sajjadul Islam           | CSI20003 |
| 9         | Prof. Nityananda Sarma  | Cache Optimization in High performance Processors                                             | Indranee Kashyap         | CSE20014 |
| 10        | Prof. Nityananda Sarma  | QoS provisioning in Named Data Networking                                                     | Suman Kumar Chaudhry     | CSI20015 |
| 11        | Dr. Bhabesh Nath        | Use of IoT in transportation of goods.                                                        | Bijita Singha            | CSI20022 |
| 12        | Dr. Bhabesh Nath        | Using IoT to monitor heart patient                                                            | Anju Chhetry             | CSI20018 |
| 13        | Dr. S.S.Satapathy       | Polymerphism in Covid-19 Genome Stem-loop structures                                          | Gargee Handique          | CSE20008 |
| 14        | Dr. S.S.Satapathy       | Nucleotide polymerphism and gene functionality: a ML based analysis                           | Debashis Das             | CSE20015 |
| 15        | Dr. Sanjib Deka         | Dynamic network slicing in 6G Network                                                         | Nishtha Roy              | CSE20007 |
| 16        | Dr. Sanghamitra Nath    | Spoken document topic segmentation                                                            | Jubilee Gogoi            | CSI20002 |
| 17        | Dr. Sanghamitra Nath    | Investigating prosodic prominence in Assamese and Mizo                                        | Sanghamitra Sarkar       | CSI20027 |
| 18        | Dr. Swarnajyoti Patra   | Structure preserving image filtering                                                          | Pinky Chetry             | CSI20029 |
| 19        | Dr. Swarnajyoti Patra   | Sparse representation classifier                                                              | Shaphiiakyrmen Skhembill | CSI20017 |
| 20        | Dr. Shobhanjana Kalita  | Detection of fake news in social media                                                        | Bijoy Mogor              | CSE20006 |

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|----|---------------------------|-----------------------------------------------------------------------------------------------|----------------------|----------|
| 21 | Dr. Shobhanjana Kalita    | Diagnosis of neuro-degenerative diseases from MRI data                                        | Ruchika Das          | CSI20004 |
| 22 | Dr. Nabajyoti Medhi       | Health Monitoring in Internet of Medical Things (IoMT) using Machine Learning (ML) Approaches | Prayakhi Emea Dutta  | CSI20005 |
| 23 | Dr. Nabajyoti Medhi       | SDN based QoS for IoT                                                                         | Kumarjit Ray         | CSE20009 |
| 24 | Mrs. Monisha Devi         | <b>TO BE DECIDED</b>                                                                          | Bijoy Laxmi Biswas   | CSI20021 |
| 25 | Mrs. Monisha Devi         | Machine learning approach for spectrum management in 5G enabled smart city                    | Yeasmin Begum Laskar | CSI20006 |
| 26 | Dr. Ramcharan Baishya     | Deep learning based image processing                                                          | Wajid Rahman         | CSI20007 |
| 27 | Dr. Ramcharan Baishya     | Generative Adversarial Network                                                                | Kankita Nath         | CSE20017 |
| 28 | Dr. S. I. Singh           | Educational Data mining                                                                       | Ruchika Bhoot        | CSI20012 |
| 29 | Dr. S. I. Singh           | Posture recognition using machine learning                                                    | Rasel Ahmed          | CSI20030 |
| 30 | Mr. L. Basantakumar Singh | Prediction of Pest Infestation                                                                | Ekha Morang          | CSE20016 |
| 31 | Mr. L. Basantakumar Singh | Computer Aided Diagnosis                                                                      | Himangshu Shekhar Sa | CSE20005 |
| 32 | Prof. Bhogeswar Borah     | Time series analysis                                                                          | Kashmiri Borah       | CSI20016 |
| 33 | Prof. Bhogeswar Borah     | Feature selection using deep learning                                                         | Abhishek Kumar       | CSE20010 |
| 34 | Dr. Rosy Sarmah           | Integration of Protein interaction networks with multi Omics data                             | Anup Basumatary      | CSI20023 |
| 35 | Dr. Rosy Sarmah           | Differential expression analysis of scRNA-seq data                                            | Dipankar Ch. Barman  | CSE20018 |
| 36 | Dr. Debojit Boro          | Driving behavior analysis using deep learning                                                 | Rinco Das            | CSE20019 |
| 37 | Dr. Debojit Boro          | Face detection from smartphone pools using federated learning                                 | Tushar Barai         | CSI20024 |
| 38 | Dr. Arindam Karmakar      | Geometric algorithms for image processing/computer vision                                     | Ananda Upadhaya      | CSE20013 |
| 39 | Dr. Sanjib Deka           | Contextually Agile eMBB Communications in 6G                                                  | Mandip Baruah        | CSI20025 |