

## List of offered Projects for B.Tech(CSE)

Department of Computer Sc. & Engineering, Tezpur University

Autumn Semester 2021

Sl. No.	Project Title/Area
1	Federated Learning for Healthcare with Privacy Protection
2	Blockchain in Food Traceability
3	IoT in Food Safety
4	Dimensionality reduction
5	Analysis of CNN based semantic segmentation
6	Analysis of instance segmentation models for parasite egg segmentation
7	Web database application for Hostels of TU
8	Postures recognition using deep learning
9	Students performance predictor
10	Alignment of parallel corpora.
11	A boot strap translator with carefully chosen incremental input.
12	Newspaper summarization.
13	Indoor scene classification using deep learning
14	Automatic Students attendance recording system
15	Spectrum Allocation in 5G
16	QoS/QoE in Named Data networking
17	Channel assignment in Elastic Optical Networks
18	Sports Facility user management system. using MySQL and PHP (bootstrap, CSS optional) [1 student for 2 semester]
19	Class schedule verifier for CSE, Tezpur University Using MySQL and PHP (bootstrap, CSS optional) [1 student for 2 semester]
20	Annual sports meet information system for Tezpur University. Using MySQL and PHP (bootstrap, CSS optional) [1 student for 2 semester]
21	Supply chain management network (Linear programming to be used)
22	Stem-loop structure in Covid-19 Genome(Dynamic Programming/Graph theory to be used)
23	Polymerphism estimation from multiple sequence alignment (Dynamic Programming to be used)
24	Spectrum management using SDN for Elastic Optical Network
25	Radio Resource management for 5G
26	Evolutionary game model for Cooperative Spectrum Sensing in CR 5G network
27	Extraction of deep learning features for GBC
28	Deep Learning Model for GBC
29	Integration of Protein interaction networks with multi Omics data
30	Clinical Data Management
31	Driving behavior analysis using deep learning
32	Feature extraction for cataract detection using deep learning from eye images
33	Deepfake detection using Deep Neural Network
34	Automatic highway alignment using machine learning
35	Graph learning/ isorphism
36	Utility apps for our department
37	Geometric algorithms for image processing/computer vision
38	Annotated corpus for summarization systems
39	Detecting prosodic boundaries in spontaneous speech
40	Pattern classification
41	Attribute filtering

42	Multi Agent Reinforcement Learning and Applications
43	Image processing for classification of Neuro-degenerative disease
44	Fog Computing in Internet of Medical Things
45	Handling QoS in IoT
46	Mobile App Development in React Native
47	Cognitive radio based security for IoT applications
48	Spectrum management in 5G using cognitive radio
49	Generative Adversarial Network ( GAN) Based Application development
50	Deep learning based Plant Disease detection and remedy from plant image
51	Responsive User interface design for different screen size devices using HTML-CSS-JS-JQUERY

NB:

1. B. Tech students should apply individually or in group of 2(max).
2. Projects will be allocated based on the CGPA (till last semester). For groups highest CGPA between the group members will be considered.
3. Students need to submit minimum of 3 preferences and maximum 5 preferences.