Department of Computer Sc. & Engineering

List of Offered Projects for MCA 3rd Semester – Autumn 2022

Topic 1: Research publication database of faculty members and students
Topic 2: Student Mentoring system
Topic 3: Mood detection using EEG sensors applying Machine Learning (Prior idea of IoT and Machine Learning is helpful)
Topic 4: Audio Book development and access facility through User-friendly interface.
Topic 5: IoT-enabled test bed development for Lab Monitoring and Intrusion Detection.
Topic 6: Food Spoilage Detection in near real time.
Topic 7: Classification of Psychiatric disorders on Neuroimaging data using Deep learning.
Topic 8: Breast cancer detection using Deep Learning
Topic 9: Self-supervised learning for Biomedical image segmentation
Topic 10: AI for handling respiratory diseases
Topic 11: Federated learning for privacy-aware medical systems
Topic 12: Geometric machine learning in Computer vision
Topic 13: Mentor-mentee record keeping system
Topic 14: A study on effect of Screen Time on Learning Ability **Topic 15:** Project 1. information system for sports facility using mysql and php (No development tool will be allowed to use) **Objectives for Topic 14 & Topic 15 are** • Objective 1: To learn about Mysql [PO8-3, PO7-3, PO6-1, PO10-1, PO5-1, PO2-1] • Objective 2. To learn about Php and its dependency on webserver [PO8-3, PO7-3, PO6-1, PO10-1, PO5-1, PO2-1] • Objective 3: To apply the SE concepts (SRS, ER and DFD) in real life problems (PO1-3, PO3-2, PO6-3, PO7-3] • Objective 4: To prepare a technical report [PO4-3, PO1-1, PO2-1] **Evaluation milestones** • Finalizing SRS • Finalizing ER • Finalizing DFD • Preparation of Relational tables and data dictionary • Creation of Tables in Mysql and setting the constraints • User interfaces using PHP as per finalized DFD
Topic 16: Development of an OTP based Students Self Registration and authentication system using Tezpur University email server.,
Topic 17: Design of a Role based Students Feedback System.
Topic 18: Paperless application processing in an office
Topic 19: Facility maintenance alert and tracking in an office

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Topic 20:	Feature selection
Topic 21:	Texture filtering
Topic 22:	Tezpur University Computer Society Website Development
Topic 23:	Context sensitive based Next Word Prediction in Smartphone
Topic 24:	Web-based tool for summarizing broadcast news
Topic 25:	A tool for query-based audio retrieval
Topic 26:	Automated Project allocation system
Topic 27:	Web based application
Topic 28:	Online form submission portal for Tezpur University admission
Topic 29:	Machine learning for GBC classification
Topic 30:	Machine learning for image segmentation and disease prediction
Topic 31:	Data Analysis in disease biomarker prediction
Topic 32:	An automated paper-reviewer assignment system in Academia
Topic 33:	A community-based Influence Maximization in complex social networks
Topic 34:	Identifying serendipitous collaborators in Scholarly Big Data

To submit your project preferences, follow the link: https://forms.gle/97Ry8NpBo5Vo4G169