Lakavat Umesh Chandra

Roll No.:B22CS029
Computer Science and Engineering
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Education

B.Tech in Computer Science and Engineering at IIT Jodhpur (2022 – 2026)	*6.41*
Intermediate at Narayana Junior College (2021)	*98%*
Secondary School Education at Sri Chaithanya Techno School (2019)	*100%*

Projects

- **Employee Data Management Portal** *Jan 2024 - May 2024*
  Developed a secure portal for employees to access and manage assigned data from spreadsheets. IIT Jodhpur
  - Created intuitive user interfacesfordata viewingand editing.
  - Ensured data security and compliance with proper authentication.
  - Tools& technologies used: SheetDB,React, Redux, Tailwind CSS
- **Emo-Art Emotion detection of art portraits** *Feb 2024 - Apr 2024*
  Developeda cnn-based web app for recogning 7 emotions in art portraits IIT Jodhpur
  - Ensured data security and compliance with proper authentication.
  - Preprocessed datasets and integrated face detection for robust classification.
  - Deployed a web application using Flask on AWS EC2 with a user-friendly interface.
  - Tools & technologies used: Python, CNN, FER-13, DenseNet, MTCNN, Flask, AWS
- **Library Management System (Full-stack)** *Feb2025-Apr2025*
  Developed a secure portal for employees to access and manage assigned data from spreadsheets. IIT Jodhpur
  - Designed CRUD operations for student registration, book issue/return, and fine management.
  - Ensured ACID compliance with relational database design.
  - Created an admin-focused front-end for seamless record maintenance.
  - Tools & technologies used: MySQL, React.js, Express.js, JavaScript, Tailwind CSS
- **EM Algorithm – Applications and Comparative Study** *Feb2024-Apr2024*
  Implemented EM, EME, and Direct Inversion methods for photon statistics retrieval and data imputation.
  - Implemented EM, EME, and Direct Inversion algorithms to estimate photon statistics from click statistics.
  - Compared performance of algorithms; EME achieved higher accuracy, faster convergence, and better robustness.
  - Result: EME consistently outperformed EM and Direct Inversion, providing more reliable photon statistics.

Key Courses Taken

- Data Structures and Algorithms (**DSA**), Pattern Recognition and Machine Learning (**PRML**), DBMS, Software Engineering, Design and Analysis of Algorithm (**DAA**), Introduction to Computer Science, Probability, Statistics, and Stochastic Processes

Technical Skills

- Data Structure and Algorithms ,Object Oriented Programing.
- Programming: Python,C++, JavaScript
- Tools & OS: Git, Jupyter Notebook, Google Colab
- Libraries/Frameworks: Pandas, Numpy, scikit-learn
- Web Skills: HTML/CSS/JS, ReactJS, Express.js,Node Js