



Tejas Gupta

Roll No.:B22CS093

B.Tech

Computer Science and Engineering

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Github

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (CSE)	Indian Institute of Technology Jodhpur	8.6	2022-Present
Senior Secondary	CBSE Board	96.2%	2022
Secondary	CBSE Board	98%	2020

EXPERIENCE

- UG Researcher -IIT Jodhpur** Present
Real Time Representation of SDFs of moving objects Jodhpur Rajasthan
 - Currently working on research focused on developing real-time representations of Signed Distance Fields (SDFs) with a temporal dimension. Investigating techniques for efficiently updating and rendering SDFs to track moving objects and capture temporal dynamics.*Difference Photo-current Estimation Deep Learning Model*
 - Developed and validated a neural network model for predicting Difference Current in Photo Diodes, supervised by Prof. V. Narayanan; improved prediction accuracy by 20 optimizing performance in photonic device applications.
- IGMUN-Ignus IIT Jodhpur** Nov 2022 - Feb 2023
Marketing ,Event Management and PR Volunteer Jodhpur Rajasthan
 - Drove marketing initiatives, managed events, and executed PR strategies as a Volunteer for IGMUN-Ignus IIT Jodhpur, contributing to the success of high-profile events

PROJECTS

- Movie Recommendation System** GitHub
Tools & technologies: Machine Learning, PyTorch, Stream Lit March - April 2024
 - Trained a model on movie lens dataset using algorithms like ANN, Single Value Decomposition, Random Forest Regressor etc and deployed the model on stream lit
- Colour-Blind Assistance System Project** GitHub
Tools & technologies: Tensor Flow Lite, Flutter, Firebase, Image Classification, Docker February- April 2024
 - Developed "Colour Blindness Aid" mobile app with object detection and color identification features using Flutter and Google ML Kit.
 - Dockerized the app for easy deployment and distribution across various platforms.
- Smart City Surveillance Challenge -NCVPRIG 2024** June 2024
Tools & technologies used: Computer Vision, PyTorch, RESNET
 - Developed an ensemble-based multi-label image classification system using ResNet-50, EfficientNet-B3, and DenseNet-121, achieving high accuracy in identifying multiple attributes per image.
- Chatbot** GitHub
Tools & technologies used: Flutter, ChatGPT Open AI API, REST API September 2023
 - Built using Flutter that incorporates a chatbot for interactive conversations. This project utilizes state management with the provider package for managing models and chat data. It utilises the services of Open AI API.
- Book Indexing** GitHub
Tools & technologies used: Python, OOPS Nov 2023
 - Implemented a Red-Black Tree Structure for efficient word indexing within a set of chapters.

KEY COURSES TAKEN

– Data Structures and Algorithms, Pattern Recognition and Machine Learning, Software Engineering, Linear Algebra and Multi-variable Calculus, Probability Statistics and Stochastic Processes

TECHNICAL SKILLS

- **Programming:** C/C++, Python, Dart, SQL
- **Tools & OS:** Git, Jupyter Notebook, Google Colab, Linux, Windows
- **Libraries/Frameworks:** Pandas, Numpy, scikit-learn, Flutter, PyTorch, TensorFlow

POSITIONS OF RESPONSIBILITY

- **Internship Coordinator** Career Development Cell (Placement Cell) ,IIT Jodhpur
- **Student Guide**, Student Well-being Committee

May 2024-Present

Aug 2023-May 2024

ACHIEVEMENTS

- **Secured Grade A** Introduction to Computer Science and Introduction to Electrical Engineering
- **Academic Excellence** Received Gold Medal for Continuous Academic Excellence-DPS Gurgaon

2022

2014-2022
