



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

- Automation Engineer Intern -Ericsson India Global Services Pvt. Ltd** July 2024-Present
Noida,Uttar Pradesh
– Will be integral to the automation of defined tasks within managed service delivery for customers.
- UG Researcher -IIT Jodhpur** Present
Jodhpur Rajasthan
Real Time Representation of SDFs of moving objects
– Currently working on research supervised by Prof. Rajendra Nagar 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
Jodhpur Rajasthan
Marketing ,Event Management and PR Volunteer
– 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 Personal Attribute Recognition Challenge-NCVPRIPG 2024** GitHub
Tools & technologies used: Computer Vision ,PyTorch,RESNET June 2024
– 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.
- DePondFi Challenge -NCVPRIPG 2024** GitHub
Tools & technologies used: Computer Vision ,PyTorch,MobileNetV3 June 2024
– Developed a pipeline for processing fish images and extracting keypoints using OpenCV.
– Trained a customized MobileNetV3 model to predict keypoints from images.
– Utilized PyTorch for model implementation, defining L1 and MSE loss functions and using an Adam optimizer with weight decay.
– Enhanced model generalization through data augmentation with Albumentations and imgaug.
- Book Indexing** GitHub
Tools & technologies used: Python, OOPS,Low-Level Design 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	<i>May 2024-Present</i>
– Student Guide ,Student Well-being Committee,IIT Jodhpur	<i>Aug 2023-May 2024</i>

ACHIEVEMENTS

– DePondfi Challenge - NCVPRIPG 2024 - Among the Top 5 Teams	<i>June 2024</i>
– Smart City Surveillance PAR Challenge - NCVPRIPG 2024 - Ranked 7th	<i>June 2024</i>
– Secured Grade A Introduction to Computer Science and Introduction to Electrical Engineering	<i>2023</i>
– Academic Excellence Received Gold Medal for Continuous Academic Excellence-DPS Gurgaon	<i>2014-2022</i>
