



Smruti Dawale
Bachelors in Technology and Engineering
Indian Institute Of Technology, Jodhpur

+91-7249028608
dawale.1@iitj.ac.in
Github
LinkedIn
Leetcode

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech	Indian Institute of Technology, Jodhpur	7.57	2025
Senior Secondary	Jagdamba Junior Science College (HSC)	98.8%	2021
Secondary	Giants High School (SSC)	97.2%	2019

EXPERIENCE

- **SWE Intern | IIT Hyderabad | -MedInfo Lab-** May 2024 - July 2024
Research Internship Hyderabad, India
 - Designed and implemented a user-friendly **GUI** for psychometric tests using **Python** and **PsychoPy**, integrating **PLUX** sensors to enable real-time acquisition of vital physiological data for accurate research analysis.
 - Optimized data management and interface flow to ensure a seamless user experience, enhancing the reliability and efficiency of biometric data collection in healthcare research settings.
- **Undergraduate Student Researcher | IIT Jodhpur** Jan 2023 - Mar 2023
Computer Vision, Python, ML/DL
 - Developed an **image super-resolution model** for IVUS (Intravascular Ultrasound) images, achieving an improved PSNR value of 34.38, reducing MSE to 25.31, and improving the SSIM score to 0.83.
 - Utilized **ESRGAN** with the state-of-the-art **Squeeze and Excitation attention** model to enhance image quality.
- **Machine Learning Intern | Feynn Labs** May 2023 - July 2023
Data Analytics, ML
 - **AI Product/Service Prototyping (AI in Agritech)**: KNN ml model that will profit small agri-techs by predicting the outcomes of the harvest season.
 - **Electrical Vehicle Market Segmentation using ML & Data Analysis**: Feasible strategy to enter EV market by analyzing global trends, segmentation using K-means clustering & customizing the marketing mix.

PROJECTS

- **IDFY FraudBusters Hackathon** Sept 2024
NLP, Flask, AI, Data Visualization Github
 - Developed an AI-powered fraud detection system using **NLP for PII detection** and risk analysis.
 - Implemented a backend with Flair's NER model and regular expressions, visualizing PII risk scores using Plotly, and built a Flask-based deployable UI for real-time results.
- **WeatherWhiz** Jan 2024 - April 2024
IOS development, SwiftUI
 - Developed an app using SwiftUI, leveraging the OpenWeather API to provide users with real-time weather data.
 - Implemented location services to dynamically fetch and display weather conditions, including temperature, humidity, and atmospheric pressure.
- **Library Management System** Oct 2022
Object Oriented Programming
 - Implemented using C++'s **OOP** principles, where different entities such as books, users, and admin are managed using different classes and interfaces.
 - Employed basic threading concepts to ensure system integrity, preventing simultaneous access by either two users or a user and an admin, in accordance with the project conditions.

KEY COURSES TAKEN

- Deep Learning, Introduction to ML, Financial Engineering, Data Structure and Algorithms, Introduction to Computer Science, Computer Networks, Linear Algebra and differential equations, Calculus, Probability Statistics and stochastic processes, Introduction to Electrical engineering, Operating Systems

TECHNICAL SKILLS

- **Programming:** C/C++, Python, SQL, HTML, CSS, JavaScript, Node.js, React.js, SwiftUI
- **Libraries/Tools:** Pandas, Numpy, scikit-learn, PyTorch, Tableau, Git/GitHub, PowerPoint, Outlook

ACHIEVEMENTS

- Selected for **SURE internship** at IITH out of **20,800** applications. 2024
- Attained a **global ranking of 34th** in the Uneshance 2023 competition. 2023
- Awarded **A grade** in the ML course, given only to the top performer in a class of over 220 students. 2022