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Education

Maharaja Agrasen Institute of Technology (GGSIPU)

2021-2025

B.Tech. in Information Technology and Engineering

CGPA: 8.84

Indian Institute of Technology Madras (IITM)

2021-2025

B.S. in Data Science and Applications

CGPA: 8.7

Experience

Punjab National Bank, MISD Department

July 2024 – Aug 2024

Data Analytics Intern

- Developed an intelligent Car Loan Application system using LLMs for automating user information gathering and function/API calling with existing systems. Dynamically populated PDF forms and containerized with Docker for scalable deployment, significantly streamlining the loan application process.
- Utilized open-source Large Language Models locally for NLP tasks such as Summarizing large internal documents.

Indian Institute of Technology Madras

Oct 2023 – June 2024

Application Development Project Mentor

- Conducted intensive bootcamps on application development, teaching students in building complex web applications like a feature-rich social media webapp with CRUD operations and RESTful APIs.
- Mentored and guided a cohort of students through their academic projects, including development of a robust music streaming platform, resulting in 85% of mentees achieving excellent grades.

Projects

Project Management System

[Github Demo](#)

Flask, Vue.js, SQLite, GitHub API, Gemini API, Celery, Redis, JWT, Pytest

- Developed the project to help instructors assign projects to students and track their progress, implementing features like Automatic Repo Creation milestone tracking, AI-powered report analysis, and dashboards for instructors and students.
- Delivered a fully tested application using Pytest, integrating AI for automated evaluations.

CrimeCast

[Kaggle](#)

Scikit-Learn, Pandas, Matplotlib, LightGBM

- Conducted data preprocessing, including feature extraction, outlier removal, and train-test splitting, enhancing model accuracy.
- Developed and evaluated multiple machine learning models (Logistic Regression, KNN, Decision Tree, SGD, LGBM) to predict crime categories using a real-world dataset of crime incidents.
- Performed comprehensive exploratory data analysis, generating insightful visualizations of victim demographics, crime locations, and case statuses.

Show Time

[Github Demo](#)

Flask, Vue.js, Celery, Redis

- Spearheaded the development using Flask and Vue.js, featuring CRUD operations for theatre and movie management.
- Implemented admin privileges, user authentication, secure ticket booking, and rating system.
- Enhanced performance by implementing caching resulting in a performance improvement of 96.51% with Redis and automated tasks using Celery.

Technical Skills

Programming Languages & Tools: C++, Python, JavaScript, SQL, Java, Git

Web Development: HTML, CSS, Flask, Vue.js, Node.js, Bootstrap

Data Science & Machine Learning: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn

Achievements

- Ranked 153rd in TCS Codevita Season 12 Round 1.
- Ranked 20th out of 900+ participants in Kaggle competition "CrimeCast" organized by IITM.
- Solved Over 500 Problems on Leetcode (leetcode.com/Yashcodes) and Active Contributor on Kaggle (kaggle.com/yashskaggle).