Kushagra Prajapat

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🌐 [Credly](#) | [LeetCode](#) | [LinkedIn](#) | [Github](#) |
📍 Pune, Maharashtra

PROFESSIONAL SUMMARY

Motivated and curious 3rd-year B.E. student in Information Technology with strong interests in Artificial Intelligence, Machine Learning, and Python development. Proficient in multiple programming languages and familiar with essential frameworks and tools, I have hands-on experience in implementing projects that enhance real-world functionality.

EDUCATION

2023-2027	B.E. from Savitribai Phule Pune University.	8.9 CGPA
2022-2023	XII (HSC) from Jawahar Navodaya Vidyalaya, Ujjain.	89.6%
2020-2021	X (SSC) from Jawahar Navodaya Vidyalaya, Ujjain.	90.6%

SKILLS

Programming Languages	Python, JAVA, C++
Web Technologies	HTML, CSS, JavaScript, FastAPI, Django
Database	MySQL Server 2008, MongoDB, SQLite
Framework	FastAPI, Django, React
Tools and IDEs	Eclipse, VS Code, GIT, Tableau, Excel
Competitive Programming	200+ LeetCode, 3x Unstop Coding Contest Winner

PROJECT DETAILS

AI based Traffic-Light Management System

Technologies   : Python, Raspberry Pi, OpenCV, YOLO, Ultralytics
Description:
Developed an AI-based traffic signal system that dynamically adjusts signal timings based on real-time vehicle detection. An emergency signal mechanism was also introduced for ambulances and other priority vehicles.
Roles and Responsibilities:
- Designed and implemented logic to analyse traffic flow via OpenCV and YOLO with 80% accuracy achieved in detection.
- Handled Raspberry Pi integration and camera modules to minimize latency by 40%.
- Performed extensive testing and troubleshooting for real-time use cases.

E-Commerce Web Application

Technologies   : Django, MySQL, HTML, CSS, Bootstrap, JavaScript
Description:
Built a full-stack e-commerce website with secure authentication and real-time cart features.
Roles and Responsibilities:
- Designed user authentication with login/logout, password validation, and session handling.
- Implemented responsive front-end pages (Home, About, Profile).
- Integrated real-time cart updates based on product selection with live price totals.

- Built Django Admin Panel for product management (add/edit/delete).
- Used MySQL for structured data storage with optimized CRUD queries.

<u>Expense Visualizer</u>

Technologies   : Python 3.11.4, FastAPI, VS Code 1.86, Chart.js, HTML, CSS, JavaScript
Description:
Developed a web-based application which has a file drop down feature for .xlsx and .csv files. The application read the document and ask the user to select x and y axis to plot and then plot the data. It also provides messages for incorrect data.
Roles and Responsibilities:
- Designed and implemented application logic based on requirements reducing error by 25%.
- Wrote and optimized backend for data cleaning and pre-processing operations.
- Participated in all phases of the project development life cycle.
- Refactored the code for better readability.

INTERNSHIP EXPERIENCE

➤ **Intern at Aroma Brand Solutions**
   Dec. 2024 – Jan. 25
- Developed application-based GUI, incorporating Tkinter for front-end design with reducing error by 30%.
- Integrated real-time data retrieval using APIs, enhancing performance and interactivity.

CERTIFICATION AND ACHIEVEMENTS

- Oracle Cloud Infrastructure 2025 Generative AI Professional
- Oracle Cloud Infrastructure 2025 AI Foundations Associate (1Z0-1122-25)
- AWS Educate Introduction to Generative AI
- AWS Solutions Architect Job Simulation by Forage – July 2025
- Professional Machine Learning Engineer Study Guide by Google
- Deloitte Australia (Technology + Data Analytics) Job Simulation on Forage – January 2025
- Accenture Nordics Software Engineering Job Simulation on Forage – January 2025
- Reliance Foundation Scholar (2023)
- ResoStep (2019) (AIR 24th rank)

DECLARATION

I declare that all information given in my application is to the best of my knowledge and belief, true and correct.

Place: Pune
Kushagra Prajapat