
PREMKUMAR PAWAR

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Summary

Aspiring Data Scientist with strong foundations in machine learning, Python, and data visualization. Hands-on experience through personal and academic projects involving predictive modeling, EDA, and real-world datasets. Skilled in transforming data into actionable insights. Eager to contribute to a data-driven team and grow within the analytics space.

Experience

Prompt Engineering Intern

Feb 2024 – Dec 2024

DX RAD PVT LTD, Sangli.

- Built generative media content for *My Cinematic Multiverse* project using ChatGPT, Google Gemini, and Google Cloud TTS.
- Created visuals using Gemini API and Civitai; generated videos/images using Hugging Face and DeepSeek.
- Designed voiceovers and multimedia scripts with prompt-based AI tools for character and story development.
- Collaborated on advanced user experiences through AI-driven content generation pipelines.

Technical Skills

Machine Learning: Supervised, Unsupervised Learning, NLP, Scikit-learn, Mistral, LLaMA, Ollama

Prompt Engineering & LLMs: ChatGPT, Gemini, Cursor AI, DeepSeek, Ollama

Data Visualization: Matplotlib, Seaborn, Power BI, Excel

Programming Languages: Python, SQL, JavaScript, Core Java

Data Manipulation: Pandas, NumPy, Data Wrangling, Feature Engineering

Statistical Techniques: Regression, Classification, Hypothesis Testing, Exploratory Data Analysis

Databases: MySQL, SQLite, SQL

Workflow & Collaboration: Jupyter Notebook, VS Code

Soft Skills

Quick Learner | Positive Attitude | Self-Motivated | Leadership | Team Collaboration

Education

B.Tech, Computer Science and Engineering – Adarsh Institute of Technology and Research Center, Vita, Maharashtra

2021 – 2025 | CGPA: 7.2/10

Class 12 (PCM) – A.K.P. Junior College, Amrapur, Maharashtra

2020 – 2021 | Percentage: 71.0%

Class 10 – Mahatma Gandhi Vidyalaya, Kadegaon, Maharashtra

2018 – 2019 | Percentage: 70.4%

Projects

Driver Drowsiness Detection System

AI-Powered Real-Time Face & Eye Monitoring / Final Year Project

Duration: Nov 2024 – Jan 2025

- Developed a real-time drowsiness detection web app using **Flask** and **OpenCV**, with live video feed integration.

- Applied Haar cascade classifiers to detect facial features (face & eyes) and implemented **eye aspect ratio (EAR)** logic to monitor drowsiness.
 - Triggered live alert overlays when consecutive frames showed closed eyes beyond a threshold — indicating potential fatigue.
 - Demonstrated practical application of **computer vision**, **real-time processing**, and **human behavior monitoring** in road safety.
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Credit Card Fraud Detection

Capstone Project – ML for Imbalanced Classification

Tech Stack: Python, Scikit-learn, SMOTE, XGBoost

- Built ML models to identify fraudulent transactions from a highly imbalanced dataset.
 - Applied **SMOTE** and undersampling techniques to handle class imbalance effectively.
 - Trained and compared models like **Logistic Regression**, **Random Forest**, and **XGBoost**.
 - Evaluated using **Precision**, **Recall**, and **F1-score** for reliable fraud detection.
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LinkedIn Job Market Analysis

Exploratory Data Analysis of Job Trends & Salaries

Tech Stack: Python, Pandas, Seaborn, Matplotlib

- Analyzed 10,000+ job postings from LinkedIn to extract **salary trends**, **in-demand skills**, and **location-based hiring patterns**.
 - Analyzed job titles, company insights, remote work impact, and experience-level salary differences.
 - Visualized key metrics using Pandas, Seaborn, and Matplotlib.
 - Delivered insights valuable for both job seekers and HR analytics teams through effective EDA storytelling.
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EDA Automation using Mistral-Gemma2, Ollama, and Gradio

GenAI-Powered Exploratory Data Analysis Tool

Tech Stack: Python, Mistral/Gemma2, Ollama, Gradio, Pandas, LLM Prompt Engineering

- Built an LLM-powered tool to automate data profiling and visualization from CSV files.
 - Used **Mistral/Gemma2 via Ollama** to generate natural language insights from data summaries.
 - Implemented Gradio UI for interactive uploads and instant AI-generated EDA reports.
 - Automated null handling, correlation heatmaps, and histograms for faster data exploration.
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Extracurricular Activities

Event Organizer – Blind Coding Competition

AITRC, VITA / Aug 2024

- Led a technical event with 100+ participants, focusing on logical thinking and code efficiency.