PREMKUMAR PAWAR

Data Scientist — AI/ML Engineer — Prompt Engineer

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Summary

Aspiring **Data Scientist & AI/ML Engineer** with 1 year of experience as an **AI/ML & Prompt Engineering Intern at DX RAD Pvt Ltd**. Skilled in **machine learning pipelines**, **LLM integration**, and **Generative AI solutions**, including RAG chatbots, EDA automation tools, and dashboards. Proficient in **Python, SQL, LangChain, LangGraph**, and cloud-based deployment, with a passion for applying AI to drive **business impact**.

Experience

AI/ML & Prompt Engineering Intern   DX RAD Pvt Ltd, Sangli | Feb 2024 – Mar 2025

- Developed AI-driven workflows for *My Cinematic Multiverse* using ChatGPT, Gemini, Hugging Face, and DeepSeek.
- Engineered advanced prompt strategies and LLM integrations, reducing manual production time by **70%**.
- Designed LangChain and LangGraph modules for automated, context-aware storytelling.

Technical Skills

Machine Learning: Regression, Classification, Clustering, Hypothesis Testing, NLP, XGBoost, LGBM, RAG
Deep Learning: CNN, ANN, TensorFlow, PyTorch, spaCy, Embeddings, NLU
Prompt Engineering And LLMs: LangChain, LangGraph, Ollama, Mistral, ChatGPT, Gemini, Word Embeddings
Visualization: Matplotlib, Seaborn, Plotly, Tableau, Power BI, Excel
Analytics: Business Analytics, Predictive Modeling, Statistical Analysis
Programming: Python, SQL
Data: Pandas, NumPy, Feature Eng., EDA, Data Wrangling
Databases: MySQL, SQLite
Cloud/Deployment: Microsoft Azure, CI/CD, MLOps, Model deployment, Databricks
Collaboration: Jupyter Notebook, Google Colab, VS Code, Git/GitHub
Core Competencies: Analytical Thinking, Problem-Solving, Team Collaboration

Projects

KrishiSutra – Multi-Agent RAG Powered Agricultural Intelligence 🔗
ROLE: Lead Developer
TECH: Gemini API, LangChain, Hugging Face, Streamlit, Python

- Developed an AI-driven Multi-Agent RAG system to analyze and answer natural language queries on agricultural and climate datasets from **data.gov.in**.
- Designed four autonomous agents (Climate, Agriculture, Scheme, KCC) that collaborate using LangChain for contextual, explainable insights.
- Integrated Gemini API with Hugging Face embeddings for dataset-backed reasoning and traceability.
- Deployed a Streamlit dashboard for real-time Q&A and policy analytics.

AI-LLM Powered EDA Automation Tool
ROLE: Backend AI logic & Gradio UI design
TECH: Python, Mistral/Gemma2, Ollama, Gradio, Pandas

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

Customer Segmentation in India's Electric Vehicle Market
ROLE: Data preprocessing, clustering & dashboard development
TECH: Python, Pandas, Scikit-learn, Plotly

- Analyzed 10 years of EV sales data across Indian states to uncover adoption patterns.
- Applied K-Means clustering with PCA for state-wise segmentation.
- Engineered Usage Intensity Score (RFM-like) to identify B2B opportunities.
- Built dashboards using Plotly Dash for manufacturers, policymakers, and investors.

Education

B.Tech, CSE | Adarsh Institute of Technology & Research Center, Vita | 2021 – 2025 | **CGPA: 7.15/10**
Class 12 | A.K.P. Junior College, Amrapur, Maharashtra | 2020 – 2021 | 71.0%
Class 10 | Mahatma Gandhi Vidyalaya, Kadegaon, Maharashtra | 2018 – 2019 | 70.4%

Achievements

Full Stack Data Science & AI Training   *Jan 2025 – Jun 2025*
Completed a 6-month certified training in Data Science & AI from Naresh i Technologies, Hyderabad, covering Python, ML, DL, NLP, and Generative AI.