

PRAJWAL KEDARI

Computer Science Engineer (AI & ML)

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PROFESSIONAL SUMMARY

Computer Science Engineer specializing in scalable Artificial Intelligence, Machine Learning pipelines, and high-performance Backend architectures. Proven expertise in engineering predictive models, Generative AI (RAG, LangChain), and optimized REST APIs with a strong foundation in Data Structures and Algorithms. Experienced in translating complex computational logic into production-grade, highly optimized microservices.

TECHNICAL SKILLS

Programming: Python · Java · C++ · SQL · JavaScript

AI & Machine Learning: Scikit-learn · XGBoost · TensorFlow · PyTorch · LSTM · MLflow · Feature Engineering · EDA

Generative AI: LLMs · LangChain · RAG · Prompt Engineering · Gemini & OpenAI APIs · Pinecone Vector DB

Backend & Databases: FastAPI · Flask · REST APIs · Node.js · Express.js · MySQL · PostgreSQL · MongoDB · Supabase

Tools & Core CS: Git · GitHub · Docker · Linux · VS Code · Jupyter · DSA · OOP · DBMS · Operating Systems · System Design

PROFESSIONAL TRAINING EXPERIENCE

Imarticus Learning

Mumbai, India

Data Science Trainee (120-Hour Intensive Job-Ready Industry Training)

Dec 2024 – May 2025

- Built automated data cleaning and EDA pipelines using Pandas and NumPy to prepare multi-variable datasets for machine learning.
- Trained and evaluated classification and regression models via Scikit-learn, optimizing historical performance metrics by 15%.
- Constructed high-performance SQL schemas and queries to retrieve transactional datasets and support quantitative analytical reporting.

FEATURED ENGINEERING PROJECTS

SmartShield AI – Malware Detection System

Python, XGBoost, Scikit-learn, FastAPI, VirusTotal API

- Deployed an XGBoost-driven binary classification pipeline analyzing PE headers to isolate malware with 95% verification accuracy.
- Integrated VirusTotal API and local threat databases to construct automated scanning architectures, reducing cloud threat validation latency.

AI Career Strategist – Multi-Agent Resume Analyzer

Python, LangChain, Gemini API, OpenAI API, Flask, Vector DB

- Engineered multi-agent Generative AI pipelines utilizing LangChain and LLM APIs to parse unstructured PDF resumes into standardized JSON.
- Deployed a RAG-based comparison system analyzing keyword semantic densities against target job profiles, reducing candidate screening time by 60%.

Stock Market Prediction Platform

Python, LSTM, Deep Learning, Yahoo Finance API, Matplotlib

- Developed a multi-layer LSTM neural network via TensorFlow to execute time-series forecasting on sequential stock market trends.
- Automated data extraction workflows using the Yahoo Finance API, preventing temporal leakage during historical validation splitting.

Dream11 Analytics Engine

Python, Pandas, NumPy, Statistical Modeling, Scikit-learn

- Formulated structured data preprocessing pipelines in Pandas and NumPy to clean and normalize historic player performance variables.
- Designed statistical modeling algorithms leveraging historical trends to compute and generate optimal fantasy lineups based on structural parameters.

PUBLICATIONS

Lead Author — “SmartShield-AI: Malware Detection Using Machine Learning”, *International Journal of Creative Research Thoughts (IJCRT)*, April 2026 (Paper ID: IJCRT2603747) – Deployed advanced structural malware classification systems.

EDUCATION

Bharat College of Engineering, University of Mumbai

Thane, India

Bachelor of Engineering in Computer Engineering (Specialization in AI & ML)

Expected May 2026

ACHIEVEMENTS

Published Lead Author at IJCRT 2026 · Managed SIH team as National Team Leader · Solved 150+ DSA challenges on LeetCode · Developed 10+ open-source AI/ML and Backend repositories on GitHub.

CERTIFICATIONS

Machine Learning Specialization (DeepLearning.AI) · Elements of AI (University of Helsinki) · Data Science Job Ready · Advanced Python