Harshit Patil

Mumbai, MH | harshitpatil1924@gmail.com | (+91) 9322105823 | LinkedIn | Github

PROFESSIONAL SUMMARY

Final-year AIML Engineering student with a solid foundation in building and deploying machine learning models. Driven by a growth mindset and a proactive problem-solving approach, I craft high-quality, scalable AI solutions. Eager to contribute to impactful projects and continuously learn emerging technologies in the AI/ML space.

EDUCATION

Mumbai University (Pursuing)   Nov 2022 - May 2026
B.Tech Artificial Intelligence and Machine Learning

WORK EXPERIENCE

Arkham Archives   Kolkata, WB
AI/ML Intern   June 2025 - Present
- Deployed production-ready machine learning models by containerizing with Docker and hosting on Google Cloud, improving model performance and API responsiveness.
- Developing an AI-powered application that generates complete game environments in Unreal Engine from user prompts by integrating procedural world-building and no-code design tools.

PROJECTS

Stock Market Sentiment Analysis
- Built a stock market prediction model with sentiment analysis that improved forecasting accuracy by 15% by combining historical stock data with real-time news sentiment using Scikit-learn and NLP techniques.
- Collected and processed financial news data to extract sentiment scores using NLP, increasing the correlation between sentiment trends and stock movement predictions by 20%, leading to more informed investment signals.

Construction Cost Estimation AI Agent:
- Developed an AI agent for automated construction cost estimation, reducing manual effort by ~70% by taking user inputs or plan images and predicting project costs using trained LLM models via Ollama.
- Integrated Google Search API to fetch real-time local prices of materials and labor, accounting for 10% material wastage and inflation based on project duration.
- Enhanced client communication by generating ready-to-send bills and quotations using dynamic prompt workflows inside the AnythingLLM platform

SKILLS

AI/ML: Linear Regression, Decision Trees, Clustering
Natural Language Processing (NLP): Text preprocessing, Sentiment Analysis
Model Deployment: FastAPI, Docker
Libraries & Frameworks: Scikit-learn, TensorFlow, PyTorch, HuggingFace, Pandas, NumPy
Programming Languages: Python, C++, SQL, HTML, CSS, JAVA
Other Technical Skills: API Development, Prompt Engineering, LLMs
Certifications: NPTEL (Python for Data Science), IBM (AI & Professionals)

LEADERSHIP & EVENTS

Sponsorship Coordinator, MEGALEIO - National-Level Tech Fest   March 2025
Secured and managed sponsorships for a national-level tech fest with 500+ participants by leading outreach and negotiations with industry partners, resulting in increased event funding and brand partnerships.