HARSHAD PAWAR

ASSOCIATE DATA SCIENTIST

+91 9503422138 | harshadpawar198@gmail.com | Immediate Joiner | Ready to Relocate

CAREER SUMMARY

Results-driven Data Scientist with 3+ years of experience in Machine Learning, Deep Learning, NLP, Generative AI, RAG systems, and production deployment. Skilled in Python, data modeling, OCR, fraud detection, and scalable ML/AI application development across healthcare, banking, and insurance domains.

TECHNICAL SKILLS

Programming & Tools : Python, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, MySQL, Git, GitHub, Flask, Tableau

Machine Learning : Regression Models, SVM, Random Forest, XGBoost, PCA, Clustering, Feature Engineering, Tuning

Deep Learning : TensorFlow, Keras, PyTorch, ANN, CNN, DNN, Image Classification, OpenCV

NLP : BERT, GPT, RoBERTa, NLTK, SpaCy, Gensim, Word2Vec, TF-IDF

Generative AI : RAG Pipeline, LangChain, LLaMA, GPT, PineconeDB, LLM Fine-Tuning

Cloud & Data : AWS EC2, S3, Lambda, Tesseract, Data Mining, BeautifulSoup

WORK EXPERIENCE

Associate Data Scientist | Happytech Software Pvt. Ltd | June 2022 – Present

Medical Chatbot using RAG & Llama 2

Developed an AI-driven healthcare chatbot using RAG + Llama 2 with PineconeDB retrieval, enabling high-accuracy medical responses. Delivered sub-2 second response time and 85%+ user satisfaction using optimized semantic search and Flask APIs.

Vehicle Insurance Fraud Detection

Built ML pipeline for fraud detection using XGBoost achieving 87% accuracy. Performed KNN imputation, SMOTE balancing, feature engineering, and deployed the model via Flask API with monitoring pipelines.

Sentiment Analysis

Analyzed eBay product reviews using VADER and fine-tuned RoBERTa for deep sentiment classification and customer insight generation.

Handwritten OCR System

Developed banking OCR solution using TensorFlow & OpenCV to convert handwritten checks and forms into digitized structured text for workflow automation.

EDUCATION

MBA (Finance), 2012 – 2014

BE (Computer Engineering), 2007 – 2011

LANGUAGES

English | Hindi | Marathi