NIKHIL SHARMA

AI/ML Engineer
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PROFESSIONAL SUMMARY

AI/ML Engineer and Computer Science (Data Science) undergraduate with hands-on experience building end-to-end machine learning systems, from data pipelines and model training to production deployment and MLOps. Experience spans NLP and retrieval-augmented generation (RAG), computer vision, and CI/CD-driven ML infrastructure. Seeking an AI/ML Engineer or Machine Learning Intern role.

EXPERIENCE

AI/ML Intern — Tejaskp AI Software, Vadodara *Jan 2026 – Present*

- Develop and optimize machine learning models (classification, regression) for real-world use cases, applying hyperparameter tuning to improve prediction accuracy.
- Build end-to-end data preprocessing pipelines using Python, Pandas, and NumPy, including EDA, feature engineering, encoding, and normalization.
- Evaluate model performance using cross-validation, ROC-AUC, and precision-recall metrics.

Data Analytics Intern — Trainity (Remote) *Apr 2025 – Jul 2025*

- Performed exploratory data analysis and statistical analysis on user data using Python and SQL to surface engagement insights.
- Built data preprocessing pipelines handling missing values, encoding, and normalization to prepare clean datasets for ML modeling.

PROJECTS

Fraud Detection MLOps Pipeline | *Python, FastAPI, Docker, GitHub Actions, Evidently AI, AWS* | Link

- Built an end-to-end MLOps pipeline for credit card fraud detection with real-time FastAPI inference, Dockerized serving, automated CI/CD, and Evidently AI drift detection triggering automatic retraining.
- Achieved avg_precision of ~0.83 on real transaction data; provisioned core infrastructure on AWS (ECR, S3, IAM).

RAG-Based Question Answering System | *Python, LangChain, FAISS, LLM Embeddings* | Link

- Architected an end-to-end RAG pipeline integrating LLMs with a FAISS vector database for context-aware document Q&A, optimizing chunk size and retrieval strategy to minimize hallucinations.

Deepfake Detection System | *Python, TensorFlow, OpenCV, CNN* | Link

- Built a deep learning CNN model (EfficientNet-B4, transfer learning, data augmentation) to classify deepfake media across images, video, and live webcam input.

AgriFuture India — Capstone Project, ML Training Lead | *Python, TypeScript, FastAPI* | Link

- Led model training on a 4-person capstone team building an AI-powered agricultural platform with crop recommendation, plant disease detection, and market forecasting modules; deployed on Render.

TECHNICAL SKILLS

Languages: Python, SQL
ML/DL Libraries: Scikit-learn, TensorFlow, XGBoost, LightGBM, Pandas, NumPy, NLTK, LangChain
AI/ML Domains: Machine Learning, Deep Learning, NLP, Computer Vision, Feature Engineering, Predictive Modeling
MLOps / Infrastructure: Docker, FastAPI, GitHub Actions (CI/CD), MLflow, Evidently AI, AWS (ECS, S3, ECR, IAM)
Tools: Git, Jupyter Notebook, VS Code

EDUCATION

B.Tech, Computer Science Engineering (Data Science Specialization) *2022 – 2026*
ITM Vocational University, Vadodara, Gujarat | CGPA: 9.24

CERTIFICATIONS

Applied Artificial Intelligence (Microsoft & SAP) • Python for Data Science & Machine Learning • Data Science & Analytics (HP) • Data Visualization with Business Intelligence (Tata Forage)