Neeraj Prasad

AI Engineer

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SUMMARY

AI/ML Engineer with expertise in Generative AI, Machine Learning, and Deep Learning with experience of working on designing, training, and deploying scalable machine learning models for many years. Familiar with natural language processing (NLP), large language models (LLMs), neural networks, and reinforcement learning to advance the boundaries of AI-based solutions. Experienced in feature engineering, data preprocessing, and algorithm tuning for reliability, scalability, and resilience. Familiar with cloud computing platforms (AWS, Azure, Google Cloud) and orchestration tools (Docker, Kubernetes). Enthusiast of technical leadership, mentoring, and steering AI projects to business objectives with emphasis on data privacy, security, and compliance.

EXPERIENCE

Redpluto Analytics — **Sep 2024 — Present**

HubSpot Deal Data Pipeline | Data Engineer
- Needed a scalable solution to automate extraction and reporting of HubSpot CRM deal data for operational analytics.
- Built an Airflow-based ETL pipeline using Python, integrated HubSpot APIs, and enabled field mapping, logging, and SFTP-based report delivery.
- Automated deal data reporting for both open and closed pipelines, reducing manual effort by 90% and ensuring timely, structured CSV reports with error tracking.

AI-Powered Call Analysis System | AI Engineer
- Needed an automated system to analyze trading call recordings and validate transactions for compliance and quality assurance.
- Built a Flask-based API with PostgreSQL backend, used Google Gemini AI for transcription and data extraction, and implemented real-time audio processing and dashboard analytics.
- Delivered a production-grade system that achieved 95%+ transcription accuracy and automated match/mismatch analysis, improving call auditing efficiency and reducing manual verification efforts by over 80%.

EDUCATION

Bhilai Institute of Technology - *Master of Computer Applications* — **2020 — 2022**
SSSSMV, Durg - *Bachelors of Computer Applications* — **2016 — 2019**

CERTIFICATIONS

Hands-On Essentials: Data Warehousing Workshop , Snowflake — **Jan 2025**
Python Basics from University of Michigan — **May 2022**
Machine Learning Pipelines with Azure ML Studio — **May 2022**

PROJECTS

Hotel Booking Cancellation Prediction System, Link — **Jan 2024 — Feb 2024**
- Built a predictive system to forecast hotel booking cancellations and support revenue optimization.
- Developed an end-to-end ML pipeline using LightGBM, MLflow, Docker, and Jenkins, with automated data ingestion and a Flask-based prediction interface.
- Delivered a scalable, CI/CD-enabled system that improved prediction accuracy and reduced manual model management by 80%.

MultiPDF Chat App, Link — **Mar 2024 — May 2024**
- Designed an interactive PDF question-answering app to streamline information retrieval from multiple documents.
- Built a modular LangChain-based system using Streamlit, FAISS, OpenAI LLMs, and HuggingFace embeddings to extract answers from uploaded PDFs via natural language queries.
- Delivered a robust chat interface that enables users to accurately query and retrieve document-specific insights in real time, enhancing user productivity and document utility.

SKILLS

Languages :	: Python, SQL, NoSQL, Bash, OOP
Frameworks and Libraries	: NumPy, Scikit-Learn, PyTorch, TensorFlow, HuggingFace, Transformers, LangChain, NLTK, Matplotlib, Requests, Beautifulsoup, Hugging Face, Pandas
AI/ML Techniques	: Machine Learning, Deep Learning, Generative AI, Large Language Models (LLMs), NLP, Neural Networks, Reinforcement Learning, Predictive Modeling, Feature Engineering, DataPreprocessing, Ai Agent, Agentic AI
Data Engineering and Tools	: Scalable Machine Learning Pipelines, Cloud Computing (AWS, Google Cloud, Azure), Docker, Kubernetes, Orchestration, Apache Airflow
Development Platforms and Cloud Services	: Version Control Systems (Git), VS Code, Jupyter Notebook, Anaconda, Microsoft Azure, AWS (S3, EC2, SageMaker, Lambda), Google Cloud (Vertex AI), Git
Tools	: PowerBI, Excel, MongoDB, Trello, Jira
Soft Skills	: Communication Skills, Technical Documentation, Business Objectives Alignment, WorkIndependently, Mentorship, Technical Guidance, Compliance