Praneeth Paikray

SENIOR DATA SCIENTIST

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SUMMARY

Data Scientist with 8 years of expertise in ML, NLP, LLMs, and Generative AI, combining hands-on technical expertise with team leadership. Proven track record of architecting and deploying production-scale AI solutions while mentoring data science teams. Focused on delivering measurable business impact through cutting-edge machine learning applications.

WORK EXPERIENCE

Senior Data Scientist
Bengaluru, India

Fidelity Investments, May 2023 – Present

- Fine-tuned Llama small language model (SLM) for aspect-based sentiment analysis of survey data, achieving 81% accuracy across 64 categories, enabling executives to identify emerging themes and drive data-backed decisions
- Architected a compensation analytics platform on AWS SageMaker using vLLM-optimized Phi-3 LLM to extract and cluster salary data by skills, enabling data-driven compensation decisions across job functions

Data Scientist
Bengaluru, India

Fidelity Investments, Jun 2021 – Apr 2023

- Engineered and deployed an AI-powered resume screening system on AWS EMR using fine-tuned GloVe word embeddings, reducing time-to-fill by 21% and generating $700K cost savings through automated candidate-job matching & ranking integrated with Workday
- Developed and deployed an attrition forecasting model achieving 77% accuracy by synthesizing external economic indicators, internal performance metrics, and employee networks to identify retention risks proactively

Data Science Developer
Bengaluru, India

Dell, Oct 2019 – May 2021

- Developed an end-to-end conversational analytics platform using Azure Cognitive Services for speech-to-text and custom Bert based transformer model for real-time sentiment analysis, reducing manager review time by 30% and improving sales performance through automated coaching insights
- Developed a hybrid knowledge recommendation system combining semantic and keyword search to automate incident resolution, reducing ticket inflow by 11% through self-service capabilities

Systems Engineer
Bengaluru, India

Tata Consultancy Services, Jul 2017 – Oct 2019

- Built and deployed a sentiment analysis model for the CRM team to automate the process of identifying customer feedbacks from various campaigns

EDUCATION

MTech in Data Science
Pilani, India

Birla Institute of Technology and Science, Oct 2021 – Sep 2023

BTech in Electrical Engineering
Bhubaneswar, Odisha

Odisha University of Technology and Research, Aug 2013 – May 2017

SKILLS

Programming Language: Python · SQL · Bash Scripting · PySpark

Tools & Technology: Scikit-learn · Langchain · CrewAI · Streamlit · AWS · AWS Bedrock · AWS SageMaker · FastAPI · PyTorch · MLFlow

Knowledge Area: Large Language Model (LLM)) · Natural Language Processing (NLP) · Machine Learning (ML) · Generative AI · Data Science · Cloud Computing · Small Language Models (SLM)) · Conversational AI · Active Learning

Soft Skills: Critical thinking · Collaboration · Mentoring · Communication

VOLUNTEERING

ML Engineer, Omedna
Jun 2019 – Aug 2019

- Analyzed satellite images to classify wheat crops and identify the areas in the images that consisted of wheat crops using Computer Vision Techniques

PERSONAL PROJECT

Fine-tuning LLM for language translation

- Fine-tuned Gemma 2B LLM for English-Hindi translation, adapting the instruct model to achieve multilingual capabilities while maintaining computational efficiency [LINK]