

# Praneeth Paikray

SENIOR DATA SCIENTIST

 paikraypraneeth@gmail.com

 +91-7873183721

 [huggingface.co/Praneeth](https://huggingface.co/Praneeth)

 [linkedin.com/in/praneeth-paikray](https://linkedin.com/in/praneeth-paikray)

 Bengaluru, India

## SUMMARY

Senior Data Scientist with 8+ years of experience transforming businesses through AI solutions. From foundational machine learning to cutting-edge agentic LLM & AI systems, I consistently deliver solutions that drive real business value. I thrive at the intersection of advanced technology and practical needs, leading cross-functional teams to build enterprise-scale platforms. My expertise spans the full AI lifecycle from agentic workflows, fine-tuning LLMs, RAG pipelines, and cloud deployment.

## WORK EXPERIENCE

### Senior Generative AI Specialist

Bengaluru, India

[ManpowerGroup](#), Jun 2025 – Present

- Architected and deployed an agentic AI system on Azure with 93% accuracy, reducing invoice processing time by 75% and processing 50,000+ documents monthly using LlamaIndex Workflow.
- Led a cross-functional team to build an Enterprise Generative AI platform with model evaluations, safety guardrails, and RAG pipelines for content generation and productivity tools, boosting recruiter and sales efficiency for 500+ users.

### Senior Data Scientist

Bengaluru, India

[Fidelity Investments](#), May 2023 – May 2025

- 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 employee churn model, achieving an F1-score of 77% 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 feedback from various campaigns

## EDUCATION

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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

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Programming Language: Python SQL Bash Scripting PySpark

Tools & Technology: Scikit-learn Langchain CrewAI Streamlit AWS AWS Bedrock AWS SageMaker FastAPI  
PyTorch MLFlow Azure ML Compute Azure Function App

Knowledge Area: Natural Language Processing (NLP) Machine Learning (ML) Generative AI Data Science  
Cloud Computing Conversational AI Large Language Model (LLM) Deep Learning (DL) Small Language Model (SLM)  
Context Engineering MLOPs

Soft Skills: Critical thinking Collaboration Mentoring Communication Innovation

## VOLUNTEERING

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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

## PROJECTS

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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]