

AKASH GUPTA

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OBJECTIVE

Data Science professional with 9+ years of experience delivering scalable AI/ML solutions and business insights across BFSI. Adept at GenAI, predictive modeling, statistical analysis, and full-cycle ML engineering. Seeking impactful roles to drive decision intelligence through advanced data science and GenAI.

EDUCATION

Bachelor of Technology – Electronics & Communication Engineering

Aug 2011 - May 2015

Maharaja Agrasen Institute of Technology, Delhi

Overall Score: 82%

SKILLS

Exploratory Data Analysis
Machine Learning

NumPy, Pandas, Matplotlib, Scikit-Learn

GLMs, GAMs, Linear/Logistic Regression, Decision Trees, Random Forests, AdaBoost, Gradient Boosting, CatBoost, Naive Bayes, KNN, SVM, PCA

Deep Learning
NLP/GenAI

TensorFlow, PyTorch; RNNs, CNNs, LSTM architectures

Prompt Engineering, Transformers (BERT, GPT), model fine-tuning (LoRA, quantization), RAGs, Langchain

ETL/Data Engineering
Model Deployment

SQL, Alteryx, IBM DataStage; orchestration with Airflow

Docker, GitHub Actions, Vertex AI, Kubeflow, Concourse CI

Soft Skills

Team leadership, cross-functional collaboration, project ownership, stakeholder communication

EXPERIENCE

Lead Data Scientist

Oct 2021 - Present

EXL Service

Gurgaon, India

- Led ML, NLP and LLM initiatives across claim analytics, semantic search, and premium forecasting models, achieving business savings.
- Building scalable ML/GenAI pipelines and leading a 10-member team across product and analytics lifecycle.

Data Scientist

Mar 2019 - Oct 2021

EY

Gurgaon, India

- Developed a configurable simulation and forecasting tool, delivering actionable statistical insights that supported global transaction advisory services teams at EY.
- Delivered data and business analysis on transactional datasets to extract insights and support business decisions.

Senior Analyst

Aug 2015 - Mar 2019

Accenture

Gurgaon, India

- Built Python-based fraud detection models, and operationalized ETL pipelines using Python, IBM DataStage and Alteryx.

PROJECTS

Enterprise Text Flag Library: Built transformer and LLM-based system using Gemini Flash and SetFit to extract structured flags (e.g., cause of loss) from claim notes. Reduced false positives/negatives by over 90%.

Premium Audit Forecast Tool: Designed GLM-based simulator to predict audit premiums and simulate team impact. Led to \$12M+ increase in recovered premiums annually.

Semantic Claims Search Engine: Engineered a vector-embedding search engine (BERT, all-mpnet-base-v2) with chunking and Q&A chains. Reduced claims retrieval time by 70% and boosted analyst productivity.

Strategic Portfolio Optimization: Created end-to-end solution for identifying value drivers and forecasting client KPIs across multiple scenarios.

Fraud Detection Model: Replaced legacy GLM with Random Forest model; recall improved by 8%, and AUC-PR optimized for highly imbalanced data.

EXTRA-CURRICULAR ACTIVITIES

- Mentor for data science career development within EXL; helped 20+ peers navigate GenAI and ML career transitions.
- Contributed to a best practices whitepaper on applying LLMs to extract structured data from unstructured text in the insurance sector.

LEADERSHIP

- Leading a team of roughly 10 data scientists and analysts to deploy multi-component pipelines, collaborating cross-border with stakeholders from design through delivery.