

ADITYA MISHRA

Data Scientist | Machine Learning Engineer | Generative AI Specialist

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SUMMARY

Machine Learning and Generative AI Engineer with 3+ years of professional experience building end-to-end ML systems, NLP pipelines, and Retrieval-Augmented Generation (RAG) platforms. Strong background in Python, SQL, PyTorch, Transformers, and LLM-based architectures. Experienced in deploying production ML pipelines, designing agentic AI systems, and translating business requirements into scalable AI solutions.

EMPLOYMENT HISTORY

Machine Learning Engineer (Contract) — AKOBOT

January 2026 – Present

- Architected an enterprise-grade Agentic AI platform with Retrieval-Augmented Generation (RAG), autonomous workflows, and tool orchestration.
- Designed document ingestion pipelines (PDF/URL crawling, chunking, embeddings) using Sentence Transformers and FAISS/Qdrant
- Implemented vendor-agnostic LLM routing with HuggingFace Transformers and local fallback models
- Built planner-executor agent loops enabling ticket automation, email workflows, and tool-based reasoning

Data Analyst – Edureka

Bengaluru, Karnataka

February 2022 – September 2023

- Worked independently in remote cross-functional settings.
- Automated monthly reporting using Excel and Python, improving decision speed and data access.
- Reduced incentive calculation time by 50% via automated Excel-based pipelines.
- Boosted sales agent productivity by 10% through performance tracking models.
- Optimized Power BI dashboards with 95% size reduction and faster load times.
- Built NLP pipelines using BERTopic, UMAP, and HDBSCAN for learner behavior analysis.
- Implemented Sentiment Analysis Pipelines (LDA/NMF/TextBlob), reducing support tickets by 20%.
- Developed Recommendation Systems using TF-IDF and machine learning models
- Maintained business-critical KPIs, enabling predictive analysis and reporting accuracy.
- Created predictive dashboards using Power BI and Zoho Analytics.
- Delivered 100+ dashboards and resolved 500+ Jira tasks across analytics and ML initiatives.

Business Analyst – Excalibur Technologies Pvt Ltd

Gurugram, Haryana

January 2021 – February 2022

- Performed data analysis and feature engineering to support business decisions.
- Built reporting pipelines and KPI dashboards.
- Collaborated with stakeholders to translate requirements into data-driven solutions.
- Conducted in-depth data analysis to inform decision-making and tracked project updates through well-documented change logs.

PROJECTS

Enterprise RAG Operations Agent (Personal POC)

February 2026 – Present

Built full RAG pipeline with document ingestion, embeddings, FAISS retrieval, and LLM Q&A
Implemented LangChain-based orchestration with Streamlit UI
Deployed FastAPI backend with Docker

Snake Game

January – 2023

A Reinforcement Learning game, which learns automatically how to play the Game by Maximizing the notion of Reward.(Python, PyTorch, Deep Learning)

SKILLS

- **Programming:** Python, R, SQL, Git, and Excel
- **Cloud and Data:** Amazon Redshift, GCP, Google Vertex AI, Firebase, Supabase, AWS
- **Libraries:** NumPy, Pandas, Matplotlib, Seaborn, Sklearn (Scikit-learn), Streamlit, Pickle, Auto ML
- **Machine Learning and Statistics:** Statistical Modeling, Predictive Analytics, Supervised and Unsupervised Learning, Reinforcement Learning, Pattern Recognition
- **Natural Language Processing and Topic Modeling:** NLTK, Gensim, Spacy, TextBlob, BERTopic, LDA, NMF, UMAP, HDBSCAN, Sentence-Transformers, and Named Entity Recognition (NER)
- **Generative AI:** Large Language Models (LLMs), Prompt Engineering (Chain of Thought Prompting), LLM Fine-Tuning, Transformers, Dialogflow, BotPress, n8n, Make, Agentic AI, AI Agent Design, LangChain, LangGraph, HuggingFace, OpenAI, Anthropic Claude
- **Visualization:** Power BI, Zoho Analytics, Google Analytics, and Data Visualization using Excel
- **Data Ops:** Data Wrangling, EDA, Data Modeling, KPI Tracking
- **Business & Communication:** Business Analysis, Storytelling, Critical Thinking, Presentation (Technical and Non-Technical Audiences), Business Acumen

CERTIFICATE

- Certificate of Achievement: Data Scientist Masters Program, June–2022
- Git & SQL Training, July–2021
- Machine Learning Advanced Certification Training Data Science with Python, November–2021
- Certificate of Excellence: State Level Innovation Competition, January–2019

EDUCATION

Simplilearn – Data Scientist Masters Program

Noida, Uttar Pradesh June 2021 – June 2022

AKTU – B.Tech. (Computer Science & Engineering)

Ghaziabad, Uttar Pradesh August 2015 – August 2019

ADDITIONAL INFO

GenAI Specialist and Web Developer

Automaatte (In Development)

- Leading development of a multi-industry AI automation platform with tools for planning, research, chatbot creation, and social media automation.

Web Development and ML Engineer

Learnnect (Live)

- Built and scaled a project-based Ed Tech platform offering AI/ML and Analytics courses with mentorship and job support.

Researcher and Platform Developer

BestTrips (Handed-over)

- Researched and developed a sustainable travel platform focused on responsible tourism, custom itineraries, and community-based experiences.

Freelance Smart Contract & Web Developer (2020–2021)

Client: Devendra Mangani, CEO – AppOrbits

- Delivered Ethereum-based contract generators and full-stack web solutions.

LANGUAGES

English

Proficient

Hindi

Native