KARTIKAY

Associate Data Scientist | Bridging Data Analytics, Machine Learning & LLMs to Build Intelligent Solutions

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[Email](#) | [LinkedIn](#) | [GitHub](#) | [Kaggle](#)

Aspiring AI/ML Engineer with strong technical expertise in machine learning, deep learning, and data science. Experienced in developing AI-driven applications, LLM-based models, and data analytics projects. Proficient in supervised & unsupervised learning algorithms, NLP, and AI model fine-tuning. Passionate about leveraging AI for real-world applications and driving technological advancements.

SKILLS

- **Programming Languages**: Python, R

- **Machine Learning & AI**: Supervised & Unsupervised Learning, Regression, Classification, Clustering, PCA, Model Evaluation, **Model Training**, **Fine-Tuning**, **RAG (Retrieval-Augmented Generation)**

- **Deep Learning & NLP**: Neural Networks, Transformers (BERT, GPT-2, LLaMA 3), Tokenization, Text Preprocessing, Similarity Matching, Sentence Embeddings

- **Libraries & Frameworks**: Pandas, NumPy, Scikit-learn, PyTorch, Keras, Transformers, Streamlit, **Flask**

- **Data Science & Analytics**: Data Cleaning, Feature Engineering, Data Visualization (Matplotlib, Seaborn), Power BI

- **Cloud & Platforms**: Google Cloud Platform (GCP), Kaggle (Competitions, Notebooks, Datasets), Ollama (Local LLM Deployment)

- **Version Control & Deployment**: Git, GitHub, Virtual Environments, API Integration

- **Soft Skills**: Problem-Solving, Critical Thinking, Decision-Making, Time Management, Collaboration

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WORK EXPERIENCE

Associate Data Scientist

International Institute of Data Science and Technology (IIDST) | March 2025

- Developed automated report generation pipelines using Python (Pandas, NumPy, Matplotlib, openpyxl), reducing manual reporting time .

- Built and maintained lead distribution algorithms to optimize resource allocation, improving lead engagement rates through rule-based and data-driven prioritization.

- Designed and deployed regression models (Linear, Ridge) to forecast future sales and campaign performance, enabling proactive decision-making and budgeting strategies.

- Authored detailed technical reports and data narratives, communicating insights and model outputs to stakeholders for strategic planning.
- Leveraged data wrangling and feature engineering to structure raw data into actionable datasets for modeling and analysis.

Data Analyst Intern
International Institute of Data Science and Technology (IIDST) | January 2025 – March 2025

- Conducted lead generation analysis and optimized ad strategies using data-driven insights.
- Performed data cleaning, preprocessing, and visualization using Python (Pandas, NumPy, Matplotlib).
- Developed interactive dashboards in Power BI to monitor key performance metrics.
- Collaborated with cross-functional teams to analyze large datasets for business growth.

PROJECTS

- **Architext AI :** Built an AI-powered architectural agent that collects client preferences through contextual conversation using LLaMA 3 via Ollama. Implemented dynamic prompt engineering, session tracking, and topic-driven questioning in Python. Generated personalized proposals in PDF format using ReportLab and Flask for web interaction.

- **AI-Driven Interview Agent :** Simulated real-world interview scenarios using NLP, rule-based scoring, and sentiment analysis with Python and spaCy. Integrated with Flask for web interaction and stored data using SQLite.

- **SwasthaBee – AI Healthcare Agent :** Built an AI agent with HuggingFace Transformers, FAISS for vector search, and Llama2 for contextual dialogue. Focused on mental health use-cases with Streamlit interface and LangChain backend.

CERTIFICATIONS
- **Machine Learning Specialization – Coursera (Andrew Ng):** Supervised Learning & Advanced Learning Algorithms (June 2024), Unsupervised Learning, Recommenders & RL (July 2024)

EDUCATION

B.Tech. in Information Technology
ABES Engineering College, Ghaziabad (AKTU) | 2021 – 2025