

Gaurav Tailor

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EDUCATION

Indian Institute of Information Technology-CGPA:8.2

MS - Data Science

Lucknow, Uttar Pradesh

Aug 2023 - June 2025

University of Kota -CGPA:7.0

Bachelor of Science - Mathematics

Kota, Rajasthan

July 2018 - June 2021

EXPERIENCE AND KEY COURSES

Innometric Research Lab

Data Science and Gen AI **LOR**

- **Applied Data Science Techniques and Developed Generative AI Solutions** : Analyzed 3+ complex datasets, applying advanced preprocessing and visualization techniques and Developed and optimized 2+ AI models
- **Implemented RAG System**: Developed a FastAPI and Docker-based Retrieval-Augmented Generation (RAG) system using Neo4j for graph management. Implemented advanced semantic search with Gemini and LangChain for optimal profile retrieval based on job descriptions.

YBI Foundation

Data Scientist and Machine Learning (Intern)

- **Conducted Data Analysis**: Performed in-depth analysis on key product KPIs using **SQL**, leveraging data mining and statistical techniques to inform product optimization.
- **Machine Learning Implementation**: Developed and applied supervised and unsupervised machine learning models using **Python (NumPy, Scikit-learn)** to enhance algorithmic efficiency and relevance

DSMP 1.0 Machine Learning-CampusX **Certificate**

- **Skills & Tools**: Proficient in Python, Plotly, Flask, Tableau; algorithms including Linear Regression, Logistic Regression, KNN, Decision Trees, Gradient Boosting, PCA, SVM, and Clustering.
- **Learning Outcomes**: Mastered data analysis (100K+ records), visualization (50+ plots), model building (95%+ accuracy), feature engineering and deploying dashboards (10+ dashboards).

PROJECT

Predictive Maintenance ML Model Web Application - **[View Repository](#)**

Oct 2024

- * **Description**: Designed and deployed binary and multiclass predictive maintenance classification models to predict equipment failures and failure types using the **AI4I 2020 dataset**, achieving high **precision, recall, F1 score, and AUC-ROC**.
- * **Tech Stack**: Utilized **Python**, Machine Learning, **Docker**, Huggingface Spaces, and implemented an end-to-end **MLOps pipeline** with automated CI/CD for seamless deployment.

Fine Tune, Classification using BERT - **[View Repository](#)**

Nov 2024

- * Classified 82,500 emails as spam or legitimate using **BERT models (DistilBERT, TinyBERT)**, leveraging tokenization, text cleaning, and preprocessing techniques.
- * Fine-tuned models and evaluated performance and achieved fewer false negatives with **TinyBERT**, while **pruned DistilBERT** delivered the best overall results. Enhanced model performance through **pruning, quantization**, and knowledge distillation, optimizing for speed and accuracy.

Developed Databricks, PySpark ETL Data Pipeline - **[View Repository](#)**

Aug 2024

- * **Description**: Designed and implemented scalable ETL pipelines using **PySpark** and **Databricks**, ingesting data from various sources, transforming it with **Spark SQL** and the **DataFrame API**, and storing it in optimized formats like **Parquet** and **Delta Tables**.
- * **Techniques**: Integrated **DataLake** solutions for efficient storage and retrieval while ensuring high performance and scalability for large datasets.

TECHNICAL SKILLS

Languages & Tools: Python, PyTorch, Scikit-Learn, TensorFlow, Keras, SQL, LaTeX, Power BI, Docker, AWS

Libraries & Frameworks: Streamlit, LangChain, Ollama, Qdrant, Groq API, Hugging Face Transformers, FastAPI

Coursework: Machine Learning, Deep Learning, Artificial Intelligence, Big Data, Data Science, Statistical Analysis

Soft Skills: Decision Making, Time Management, Team Collaboration, Technical Communication, Problem-Solving

ACHIEVEMENTS & VOLUNTEERING

IIT JAM 2023: Achieved All India Rank (AIR) 876 in Mathematics - 2023.

NSS Volunteer and Leader: Organized community service projects, led teams, and facilitated awareness campaigns.

Teacher Assistant: Assisted with teaching Probability and Statistics to undergraduates, including support in lectures and grading assignments.