Mohit Lohani

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Education

Dr. B.R. Ambedkar National Institute of Technology	**Jalandhar**
Master of Technology in Artificial Intelligence; CGPA: 8.02 *(ongoing)*	*2024– 2026*
Mahatma Jyotiba Phule Rohilkhand University, Bareilly, Uttar Pradesh (State Gov. University)	**Part-Time**
MBA in General Management, (Specialization-IT Management); CGPA: 7.4(Approx)	*2022 – 2025*
Institute of Engineering and Technology, MJPRU, Uttar Pradesh (State Gov. University)	**Bareilly**
Bachelor of Technology in Mechanical Engineering; Percentage: 78.4%	*2018 – 2022*
Madhavrao Scindia Public School (CBSE)	**Bareilly**
Class XII; Percentage: 65.4%, Class X; Percentage:76%	*2016– 2018*

Experience

Adama India Private Limited (MNC Group) — **Sep 2022-Feb 2023**
Graduate Apprentice Trainee — (Dahej, Gujarat, India)

- Supported the engineering team by analyzing plant operations data to drive process optimization and **cost reduction**
- Applied **Python, SQL**, and machine learning to identify inefficiencies and enhance equipment performance
- Developed predictive maintenance models, minimizing unplanned downtime
- Built automated data pipelines and **Power BI** dashboards for real-time monitoring of engineering **KPIs**
- Contributed to a 15% improvement in workflow efficiency through data-driven **engineering insights**

Projects

Chat With Documents using GenAI (LLM-RAG chatbot)

- This Streamlit-based GenAI Q&A chatbot that allows users to ask questions and getting contextual answers from multiple PDFs, using Langchain, OpenAI/Opensource Embeddings select from drop-down menu and RAG, Easy to use and minimalist UI/UX.
- **Tech Stack: Multi- LLM RAG , Embeddings , Vectorstore , Huggingface, OpenSource, OpenAI**

Tyrex Translator(Python,TensorFlow, NLTK, Transformers, Streamlit, LabelEncoder, BoW, TF-IDF, n-gram)

- Detects anomalies in CSV datasets through EDA & ML-based analysis.
- Enables natural language Q&A on uploaded CSVs and PDFs for instant insights.
- **Tech Stack: TensorFlow, Streamlit, Pandas, Groq API, LLaMA**

Sentiment Analysis System *(Python, Scikit-learn, TensorFlow, NLTK, Transformers)*

- Built a pipeline to classify text (IMDb & Amazon reviews) into positive, negative, or neutral sentiments.
- Preprocessed text with NLTK and extracted features using Bag-of-Words, TF-IDF, and n-grams.
- Trained and evaluated ML models (Logistic Regression, SVM) and transformer-based models (BERT) for accuracy.

Bangalore House Price Prediction (**Python, Matplotlib, Seaborn, Regression Algorithms)**

- Developed and deployed a house price prediction model using **Scikit-learn** and **Streamlit**
- Analyzed Kaggle **real estate** data with Pandas, Seaborn, and Matplotlib Improved prediction accuracy through feature selection and regression techniques

Technical Skills

Programming Languages: Python, SQL, DSA, OOPS
Machine Learning: Scikit-learn, TensorFlow, Keras, Regression, Classification, Clustering
Deep Learning & NLP:CNNs, Transformers, Hugging Face, LangChain, RAG, LSTM, GRU, NLP, LangGraph(WIP)
Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Power BI, Tableau, Computer Vision
Databases & Tools: PostgreSQL, Jupyter Notebook, Google Colab, Vector DB
Key Competencies: Feature Engineering, Data Preprocessing, Model Optimization, Business Insights
IT Management: IT Strategy and Planning, IT Project Management, IT Service Management, GitHub

Certifications

- 365 Data Science(**Python,ML, DL, AI, NLP)**
- 365 Data Science **Data Analysis**
- HackerRank **PostgreSQL** Certification