

# Falak Rana

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## Overview

Machine learning enthusiast skilled in neural networks, generativeAI (LangChain, Ollama), and frameworks like TensorFlow and PyTorch. Experienced in NLP, computervision, and model optimization. Proficient with SQL, MongoDB, and data visualization tools like Tableau and Matplotlib. Strong in DSA for building efficient, scalable solutions.

## Education

**B. Tech Parul University**, Computer Science Engineering 2022 – 2026

- CGPA: 8.3/10.0
- **Coursework:** Data Structures, Data Science, Machine Learning & Artificial Intelligence, Web development

## Experience

**UnifiedMentor**, ML Intern Remote  
Jan 2025 – Apr 2025

- Developed 6 ML projects (TensorFlow/Scikit-learn) with Flask deployment
- Implemented supervised/unsupervised learning and neural networks
- GitHub: [github.com/falakrana/unifiedmentor](https://github.com/falakrana/unifiedmentor) 🔗

## Projects

### Disease Prediction using ML

- ML-based web app that predicts diseases from user symptoms.
- Developed with React (UI), Flask (API), and integrated symptom-to-disease logic.

GitHub: [github.com/falakrana/Disease-Prediction-using-ML](https://github.com/falakrana/Disease-Prediction-using-ML) 🔗

### LangChain Translator via GROQ

- Real-time translator using Gemma 2B deployed on Groq LPUs.
- FastAPI for routing, LangChain for prompt orchestration, supports multiple languages.

GitHub: [github.com/falakrana/LangChainGROQTranslator](https://github.com/falakrana/LangChainGROQTranslator) 🔗

### Coursera QA App

- Flask app using Playwright (scraping) + Groq/Llama3 (analysis)
- Extracts course details (skills, syllabus, ratings) according to user's question.

Code: [github.com/falakrana/coursera-qa-app](https://github.com/falakrana/coursera-qa-app) 🔗

### Data Analysis & Visualization

- Interactive dashboards and reports from datasets using Python, Excel, and Tableau.
- Applied EDA and statistical analysis to uncover key trends and insights.

GitHub: [github.com/falakrana/Data-Analysis-Visualization](https://github.com/falakrana/Data-Analysis-Visualization) 🔗

### PDF Analyzer

- Web tool for querying academic PDFs using Gemini Pro via LangChain.
- Utilizes ChromaDB with embeddings for efficient semantic search across document chunks.

GitHub: [github.com/falakrana/PDF-Analyzer-GenAI](https://github.com/falakrana/PDF-Analyzer-GenAI) 🔗

## Technologies

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**Languages:** Python, SQL, Java, HTML, CSS, JavaScript

**Data & Machine Learning Tools:** Pandas, NumPy, Matplotlib, Scikit-learn, TensorFlow, PyTorch, Deep Learning

**AI & LLM Tools:** LangChain, Ollama, Hugging Face, Embeddings, Vector Databases (FAISS, ChromaDB), API handling, Transformers, RAG (Retrieval-Augmented Generation) Applications, Google's Agent Development Kit (ADK)

**Databases:** SQL, MongoDB

**Visualization:** Tableau, Power BI, Microsoft Excel




**Libraries & Frameworks:** Beautiful Soup, Flask, Django, Node.js, Express.js, React, Bootstrap, Tailwind

**Version Control:** Git, GitHub

**Others:** Data Structures & Algorithms (DSA)

## Certification

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- **Data Science Bootcamp** – [Udemy Certificate](#) 
- **Data Visualization with Tableau** – [Udemy Certificate](#) 
- **MySQL** – [Cursa Certificate](#) 
- **Excel** – [Coursera Certificate](#) 