

MOHIT KUMAR SINGH

☎ Phone: +916390448206 ✉ Email: mohitsingh0an@gmail.com 🔗 LinkedIn 🐙 GitHub 🏆 Kaggle

Education

KIET Group of Institutions

Bachelor of Technology in Computer Science and Technology with AI & ML (Agg. 77%)

Nov 2022 – Present

Ghaziabad, Uttar Pradesh

D.A.V Public School (Central Board of Secondary Education)

AISSCE with PCM & Computer Science (Percentage: 86%)

Apr 2015 – Mar 2021

Raebareli, Uttar Pradesh

AISSE with PCMB & Computer Science (Percentage: 90%)

Relevant Coursework

- 📄 Data Science Masters, PW Skills
- 📄 Supervised Machine Learning, DeepLearning.AI
- 📄 Python for Data Science, AI & Development
- 📄 Introducing Generative AI with AWS, Udacity
- 📄 Gen AI Study Jams
- 📄 Google Cloud Study Jams

Experience

TechCurators, a TC Group Company 🔗

Dec 2024 – Present

AI Developer Intern

- Designing and fine-tuning AI models using open-source *LLMs* like **LLaMA**, **Mistral**, **Falcon**, and **BLOOM**, leveraging techniques such as *RAG* and *RLHF* for optimal performance.
- Conducting research and developing workflows to integrate AI models into backend systems with **LangChain**, **LlamaIndex**, and custom APIs for scalable, domain-specific solutions.
- Collaborating with cross-functional teams to deploy AI models on **AWS**, ensuring performance optimization, cost efficiency, and adherence to data security protocols.

Capx AI 🔗

Sep 2024 – Nov 2024

Capx Captain

- Spearheaded and built an AI-powered content generation platform **composai.tech**, leveraging customizable templates which has since generated over 400+ articles for customers.
- Integrated **Groq's** large language models, including **LLaMA**, **Mixtral**, and other LLMs, to power the content generation, resulting in a **22%** increase in user satisfaction compared to previous solutions.
- Designed and implemented a user-friendly web interface using Flask, HTML, CSS, and JavaScript, leading to a **35%** increase in user engagement and a **15%** reduction in customer support inquiries.

GDG on Campus KIET 🔗

Mar 2023 – Present

ML Captain

- Organized events like **IEEE-SSH 2024**, **SprintHacks** and **SprintHacks 2.0** along 100+ community members.
- Conduct Python and ML mentorship sessions, leveraging Google services (GCP, Skill Boost, Study Jams).

Projects

Multiple Disease Prediction 🔗 | Streamlit, Kaggle, Python, EDA, Scikit-learn, SVM, Decision Tree

Self Project

- Engineered a multi-disease prediction system for cancer, diabetes, and Parkinson's, reducing diagnosis time by **70%+**.
- Achieved **88%+** accuracy using DecisionTree, SVM, and Logistic Regression, improving diagnostic efficiency by **60%**.

LegalEase Bot 🔗 | Python, Streamlit, LLMs, OpenAI Embeddings, FAISS Vector DB, PyPDF2

Hackathon

- Built a chatbot with **95%+** accuracy and less than 3s query response times using OpenAI's LLM and FAISS.
- Automated text processing with PyPDF2 and *LangChain*, reducing document handling time by **50%+**.

Course Crawlers 🔗 | Python, Selenium, MySQL, SentenceTransformers, FAISS, Hugging Face Spaces

Self Project

- Created a real-time course scraper, reducing search time by **80%** and improving query matching accuracy by **70%**.
- Deployed an LLM-powered recommendation system on Hugging Face with a user-friendly Streamlit interface.

Skills

Programming Languages: Python, C, SQL, Linux, OOPs, Data Structures & Algorithms.

Data Science/ML/DL: Algebra, Probability, Statistics, Calculus, Matrices, EDA, Supervised and Unsupervised Learning Algorithms, ANN, CNN, LSTMs, RNNs, NLP, Langchain, LLMs, VLMs, Fine-tuning, CI/CD, Kaggle.

Databases & Cloud Deployment : MySQL, PostgreSQL, AWS, Streamlit, GCP, Git, Docker, CI/CD, DVC, MLflow.

Python Packages: Jupyter, Scikit-learn, PyTorch, Pandas, Numpy, Matplotlib, Seaborn, SciPy, Flask, Selenium, OCR.

Achievements

- Achieved *2nd Rank* in a Machine Learning Quiz Competition organized by KIET E-Cell sponsored by *Analytics Vidhya*.
- Ranked 831/76,000 contenders at *Amazon ML Challenge* by pre-processing and model-training on 30GB image data.
- Secured 5th rank out of 60 delegates in Model United Nations organized by college, being the delegate of China.