Aadiy Khan

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Profile Summary

Aspiring Computer Science Engineer with hands-on experience in AI/ML projects using **Python and Flask**. Seeking opportunities to apply data analysis and development skills in innovative IT environments.

Technical Skills:

- **Programming Languages**: Python (Advanced), C++ (Intermediate), Java (Intermediate), SQL (Intermediate)
- **AI/ML & Data:** TensorFlow, Keras, Transformers, Scikit-learn, Tableau
- **Web Development**: HTML, CSS, JavaScript, RESTful APIs, Flask
- **Tools & DevOps**: Git, Docker, RDKit, Streamlit
- **Core**: Data Structures & Algorithms (DSA), Problem Solving

Education

VIT Bhopal University — Bhopal, Madhya Pradesh
BTech — Expected July 2027
Computer Science and Engineering
Cumulative GPA: 8.38/10

12th Standard
Lakes International School — Bhimtal, Uttarakhand
CBSE Percentage: 86.0 — May 2023

10th Standard
Lakes International School — Bhimtal, Uttarakhand
CBSE Percentage: 88.0 — Aug 2021

Projects

FlowBERT: Intelligent Customer Service Router — Apr 2025 – May 2025

- **Technologies:** Python, TensorFlow, Keras, Transformers (DistilBERT), Streamlit, Pandas, NumPy.
- **Developed an end-to-end AI routing system** utilizing a **DistilBERT-based Transformer model** to automate ticket categorization and priority assignment, reducing manual triage time by 75%.
- **Architected a Multi-Task Learning (MTL) model** in TensorFlow/Keras using custom **Lambda layers** to simultaneously predict "Department Route" and "Urgency Level" from a single text input.
- **Executed data augmentation strategies** to scale the training dataset from 50 to 600+ records, successfully resolving class imbalance issues and improving model robustness for edge-case customer queries.
- **Deployed a real-time interactive dashboard** using **Streamlit**, enabling support teams to visualize AI-driven classifications and confidence scores for incoming service requests.

Drug Repurposing Pipeline — Oct 2025 – Dec 2025

- **Technologies:** Python, RDKit, Doc2Vec (Gensim), Pandas, NumPy, Scikit-learn, NLTK.
- **Architected a 5-phase drug repurposing framework** that integrates chemical informatics and NLP to identify novel therapeutic uses for FDA-approved compounds.
- **Engineered a multi-modal feature extraction system** using **RDKit** for 2048-bit Morgan Fingerprints and **Gensim (Doc2Vec)** for 100-dimensional clinical embeddings, capturing both molecular structure and medical intent.
- **Developed a high-throughput data fusion pipeline** to synthesize a comprehensive dataset of **2,148 features**, optimizing the model's ability to recognize complex drug-disease patterns.

- **Implemented a Direct Disease Mapping engine** to link DrugBank candidates to clinical indications, utilizing **Target Enrichment Analysis** to rank and prioritize top-tier candidates for virtual screening.
- **Automated data cleaning and preprocessing** (Regex, NLTK) for thousands of drug records, ensuring high data integrity for large-scale similarity-based medical analysis.

Hackathons & Competitions

Health Hack Hackathon: Developed a real-time AI routing system using DistilBERT to automate customer support triage, achieving a 75% reduction in manual processing time.
Kaggle Competitions: Actively competing in ML challenges, focusing on deep learning and predictive modeling

Extra-Curricular Activities & Interests

● **Competitive Programming:** Solved **350+ LeetCode challenges**, applying theoretical knowledge to identify and fix software crash root causes.
● **Open Source & Learning:** Successfully implemented the **"Attention is All You Need"** research paper from scratch.
● **Sports:** Competitive sportsperson, active in **badminton and football**.

ADDITIONAL

Languages: Fluent in Hindi , English and Urdu
Certifications & Training: IBM AI Engineer, NPTEL Introduction to Machine Learning