

Aditya Lakhani

Bachelor of Engineering
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🐙 GitHub Profile
🌐 LinkedIn Profile

EDUCATION

- **Bachelor of Engineering (Hons.) in Computer Science and Engineering(AI-ML)** 2021-25
Chandigarh University, Punjab CGPA: 7.8
- **Senior High School** 2019-21
St. Thomas' School, New Delhi Grade: 89.4%
- **Junior High School** 2017-2019
DAV Public School, New Delhi Grade: 90.4%

TECHNICAL SKILLS AND INTERESTS

Languages: : C/C++, Python, Javascript, HTML+CSS,
Technical : NLP, OpenCV, Tensorflow, ReactJs, RAG, LLMs, LangChain, Llama Index.
Technical Tools: Git, Github, MS Office, Tableau
Frameworks: ReactJs, NodeJs
Cloud/Databases: MongoDB, MySQL, Heroku
Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Probability & Statistics
Areas of Interest: Machine Learning, Data Science

EXPERIENCE

- **India Lost & Found** December 2022- September 2023
Data Management Volunteer Online
 - Contributed to the creation of an Integrated Management System for various verticals within the organization.
 - Developed an analytical dashboard & kanban board to monitor data movement in and out of a vertical/volunteer portal.
 - Worked on technologies such as react, python & mysql.

PERSONAL PROJECTS

- **SAbot** Aug 2024-
A cutting-edge bot engineered to diagnose and resolve hardware and software issues in laptops.
 - Architected a System Analysis RAG bot that leverages user manuals to generate precise responses to user inquiries regarding laptop troubleshooting.
 - Data segmentation and transformation into text embeddings using BAAI embeddings, subsequently being stored in MongoDB. Utilized vector search for efficient retrieval of solutions fed to Llama3 LLM hooked with API for conversational touch.
 - Technology Used: Python, Llama3, Llama Index, MongoDB Atlas Vector Search, Huggingface.
- **Resume Parser** Mar 2023
Python and Django-Based Resume Parsing Solution with Tabular Applicant Information Presentation.
 - Engineered a Resume Parsing algorithm that autonomously extracted key information from resumes, thereby drastically reducing the need for manual data entry.
 - Established a versatile document upload feature accepting PDFs and DOCXs alike, with an intuitive web interface, thereby guaranteeing maximum compatibility and convenience for applicants and businesses alike.
 - Technology Implemented: Python, Django, HTML & CSS, NLP.
- **Weighted Search Engine Algorithm** Nov 2023
An algorithm that intelligently ranks search items based on their maximum correlation with the queried item.
 - Utilized TF-IDF vectors and cosine similarity measures to calculate and assign weights to search results, ensuring a more nuanced ranking system.
 - Applied the algorithm to a recipe search engine, where it dynamically ranks recipes based on their relevance to the user's search query.
 - Technology Employed: Python, flask, HTML & CSS, scikit-learn.

CERTIFICATIONS

- **Python for Data Science** Completed this hybrid course by IIT Madras with 82% grade. Apr 2022
- **Advanced Machine Learning on Google Cloud Specialization** - 97.5% grade. April 2024