



Aatif Ahmad

Roll No.:B22AI002

Artificial Intelligence and Data Science

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (AI)	Indian Institute of Technology, Jodhpur	8.55	2022-2026
Senior Secondary	CBSE Board	96.6.0%	2022
Secondary	CBSE Board	97.8%	2020

EXPERIENCE

- Summer Research in Unsupervised ML** May 2024 - June 2024
Dr. Shilpa Dang
 - Performed unsupervised machine learning techniques, including K-means clustering, to parcellate regions of the human brain.
 - Worked with fMRI data of 100 subjects (50 male and 50 female) to analyze and identify patterns in brain activity.
 - Collaborated with a team to preprocess and analyze large datasets, ensuring data integrity and accuracy.

PROJECTS

- Employee Data Management Portal** June 2024
Developed a secure portal for employees to access and manage assigned data from spreadsheets. Github | Vercel
 - Created intuitive user interfaces for data viewing and editing.
 - Ensured data security and compliance with proper authentication.
 - Tools & technologies used:** SheetDB, React, Redux, Tailwind CSS
- Stanford Twitter Data : Network Analysis and Community Structures** April 2024
Graphical visualization and analysis of Twitter exchange among US Congress members. Github
 - Implemented algorithms for finding shortest paths, centrality measures and community detection.
 - Developed interactive visualizations to present findings effectively.
 - Tools & technologies used:** Python, Modules: Networkx, Matplotlib, Python-louvain
- Qubic : Real-Time quiz and chat application** April 2024
Developed a quiz and chat application using socket programming for secure client-server connections. Github
 - Gained an understanding of the client-server model and implemented sockets for communication.
 - Potential to extend the project for organizing polls, enabling group messaging, and other interactive activities.
 - Tools & technologies used:** Python, Modules: Tkinter, Socket
- Image Retrieval and Classification using Machine Learning** Feb. 2024 - March 2024
Implemented ML models to classify and retrieve images from the CIFAR-10 dataset. Github | Vercel
 - Worked in a team of 5 to apply various ML algorithms for achieving optimal accuracy.
 - Developed a website using Next Js to test the model with random images.
 - Tools & technologies used:** Supervised and Unsupervised ML Algorithms, Next Js

KEY COURSES TAKEN

- Data Structures and Algorithms, Pattern Recognition and Machine Learning, Maths for Computing, Principles of Computer Systems, Quantum Computing, Linear Algebra, Probability, Statistics and Stochastic Processes

TECHNICAL SKILLS

- Programming:** C/C++, Python, JavaScript
- Tools & OS:** Git, Jupyter Notebook, Google Colab, Docker, Linux, Windows
- Libraries/Modules (Python):** Pandas, Numpy, Scikit-learn, Matplotlib, Seaborn, NetworkX
- Web Skills:** MERN Stack : HTML, CSS, JavaScript, React, Node, Express, MongoDB, Tailwind

ACTIVITIES AND CERTIFICATIONS

- Competitive Programming :** Active participant on CodeChef (with a rating of 1572) and LeetCode
- Open Source :** Active on Github, earned multiple badges in Hacktoberfest 2023
- Full Stack Development :** Certified in Full Stack Development by Simplilearn