

AYUSH RANA

Dehradun, Uttarakhand

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EDUCATION

Graphic Era Hill University- Dehradun, India 06/2021- 07/2025
Bachelor of Technology, Computer Science Engineering CGPA: 8.1/10

D.S.B International Public School, Rishikesh 04/2019 - 05/2021
Senior Secondary Education C.B.S.E 94.8%

D.S.B International Public School, Rishikesh 04/2019
Secondary Education C.B.S.E 95%

PROJECTS

Advanced Graph Algorithms Library in C++ | *Graphs, 12/2023 - 01/2024* VS code || [github link \[Link\]](#)

- The Advanced Graph Algorithms Library includes shortest path algorithms (Dijkstra, Bellman-Ford, Floyd-Warshall), graph search methods (DFS, BFS), distance calculations, topological sorting, and minimum spanning trees.
- Designed for efficiency, it supports adjacency matrix and list representations, with power Object Oriented Programming.

Handwritten Digit Recognition | *Neural Networks, 01/2024 - 01/2024* Python, Jupyter Notebook [\[Link\]](#)

- The Handwritten Digit Recognition project, developed in a Jupyter Notebook, leveraging Pandas for data handling and TensorFlow with Keras for building and training the neural network, the project showcases a robust approach to image classification.
- It includes steps for data preprocessing, model architecture design, training, and evaluation. Achieving classification accuracies of 97.65% .

Expense Tracker | *Web Application || Vue.js, 01/2024 - 02/2024* Vue, HTML, CSS, Javascript [\[Link\]](#)

- The Expense Tracker Website is a application built with Vue.js, HTML, CSS, and JavaScript. It features a user-friendly interface for adding, editing, and deleting expenses, along with real-time budget tracking and analytics.
- Users can categorize expenses, visualize spending patterns through charts, and set budget limits to gain better financial control. The application is designed for optimal performance, ensuring a smooth user experience.

Chat With PDFs | *LLM, Streamlit, Langchain, Vectorstore, 06/2024 - 06/2024* Python, [\[Link\]](#)

- Developed a robust chat application capable of interacting with multiple PDFs simultaneously. The application leverages large language models (LLMs) for natural language understanding and processing..
- It runs seamlessly on local machines without requiring external API calls, ensuring data privacy and security. Utilizes word embeddings and a vectorstore to efficiently search and helps Time Management with PDFs.

Automated To-Do List App | *CI/Cd pipeline, 04/2024 - 04/2024* Amazon EC2, Docker [\[Link\]](#)

- The To-Do List App is developed using the Django framework and deployed on a remote AWS EC2 instance. This project employs automation tools like Jenkins for CI/CD, Docker for containerization, Kubernetes for orchestration, and Ansible for configuration management
- It provides users with an intuitive interface to manage tasks efficiently, featuring managing to-do items and also showcase of modern DevOps practices and Team collaboration.

TECHNICAL SKILLS

Programming Languages: Python , C , C++ , Java .

Web Development:: HTML , CSS , Javascript , Django , Vue.js, Streamlit , Git , Docker .

Other Skill: Jenkins , Object Oriented programming , MySQL , Machine Learning , Time Management , Quick learner , Problem solving , Data Structures and Algorithms , Solution Oriented , Service Now

ACADEMIC AND EXTRACURRICULAR ACHIEVEMENTS

- LeetCode contest rating 1465 & solved 400+ DSA question on Leetcode
- All india rank 144 in UPSC NDA examination

CERTIFICATES

Service Now : Certified Application Developer User Interface Creator | *May 2024* [\[Link\]](#)

AI Tools Workshop | *November 2023* [\[Link\]](#)