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EDUCATION

B. Tech Computer Science and Engineering Indira Gandhi Delhi Technical University for Women

11/2022 - Present

9.42 CGPA till 4th sem

Senior Secondary Maxfort School, Dwarka

04/2021 - 03/2022

CBSE Boards 97%

PERSONAL PROJECTS

Machine Learning and CNN Projects (01/2024 - 02/2024)

- EMNIST Dataset: Predicted 92% accuracy with Convolutional Neural Networks on TensorFlow's 28x28 pixel images
- Credit Scoring Model: Attained 100% accuracy using K-Nearest Neighbors and optimized accuracy with other machine learning algorithms and an Artificial Neural Network
- Disease Prediction Dataset: Conducted Exploratory Data Analysis, achieving 100% accuracy with Naive Bayes and KNN, and 97% accuracy with GBDT

CNN on Breast Mass (06/2023 - 07/2023)

- Deployed CNNs with TensorFlow in a team of 3
- Computed EDA on 569 cell data points, achieving 95.6% accuracy in malignancy detection
- Analyzed breast mass samples, reaching 70% accuracy in image recognition
- Drafted a research paper on the project

No code Chatbot Hackathon

Developed a survey chatbot using landbot.io to facilitate student feedback across 9 university departments

WORK EXPERIENCE

Artificial Intelligence Intern Unifyapps

06/2024 - 07/2024

Gurugram

Filter Retrieval Augmented Generation

- Designed a retrieval method integrating the concept of Plan RAG and using RAG to respond to user queries requiring 2 context categorizations including filtering data and then identifying relevant context.
- Implemented filtering in FAISS (Facebook AI Similarity Search) to efficiently index and search a large database of 40,000 data points.
- Applied 4 types of filters by year, month, day, and location, passing metadata for effective filtering.
- Strengthened the performance of the existing language model (LLM) against the new approach, achieving a 6% increase in accuracy.

TECHNICAL SKILLS

Programming Languages: Python

Tools and Frameworks: Jupyter, Spyder, Pycharm, VS Code, Langchain

AI ML: Machine Learning Algorithms, Neural Networks like CNN, ANN, Image Recognition

OOPS: Object-oriented programming in C++/Java

Database Management System: MySQL/Oracle

ACHIEVEMENTS

Highest CGPA in the CSE Dept, IGDTUW in 2nd semester, 9.82

NPTEL Soft Skills Development Topper, among top 5% candidates

Top 11 among the 800+ participants in the No Code Chatbot Hackathon

School Topper of Maths and Science Olympiad, Class XII

Topper in Chemistry and Computer Science Board Exam, Class XII, with a centum in Chemistry

KEY COURSES

5 Course specialization in Deep Learning by Andrew Ng

Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter Tuning, Regularization and Optimization, Structuring Machine Learning Projects. Convolutional Neural Networks, Sequence Models

CSE and Maths

Introduction to C/C++/Python, Object Oriented Programming in C++/Java, Data Structures and Algorithms, Database Management System, Numerical Methods, Discrete Mathematics, Operating Systems

CERTIFICATES

Virtual Internship Program, CodeAlpha 🗹

NPTEL, IIT Kharagpur 🗹

AI ML Internship, Anveshan Foundation and COE-IGDTUW 🗹

Desh ke Mentor, Govt. of NCT of Delhi

No code Chatbot Hackathon 🗹