Hirdyansh Mahajan

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EDUCATION

Thapar Institute of Engineering and Technology

Patiala, PB

B.E. in Computer Engineering with current CGPA of 9.21/10

Aug. 2022 - Present

Relevant Coursework: Computer Programming, Object Oriented Programming, Data Structures, Design and Analysis of Algorithms, Operating System, Database Management System, Artificial Intelligence

Gurdaspur Public School

Gurdaspur, PB

passed 12th standard with 94.6%

May 2021

PROJECTS

Sddx | vffd

October 2023 - January 2024

Fgscsdvdsvfbcgbncgngncg

PROJECTS

Stock Prediction | Python, Flask, Pandas, Prophet

October 2023 - January 2024

- · Implemented a stock prediction website using Flask and TSAI models to forecast stock prices accurately.
- Engineered an interactive web interface using Flask to enable users to input stock symbols, select prediction horizons, and visualize forecasted stock price.
- Integrated data scraping techniques to fetch historical stock market data from various financial APIs like **yFinanace**, ensuring a consistent and reliable data source for analysis.
- · Achieved an accuracy of 90% with a maximum threshold of 1.0.

Sign Language Interpretation | *Python, OpenCV, NumPy*

July 2023 - August 2023

- Developed a real-time Computer Vision system to recognize and interpret sign language using OpenCV and NumPY.
- Utilized contour detection and convex hull algorithms to extract hand regions from video frames, enablingprecise
 gesture recognition and classification.
- Conducted extensive testing and validation using diverse sign language datasets, achieving an overall accuracyover
 94% for gesture recognition and an average frame processing rate of 30 frames per second.

Centrality Analysis | C++

September 2023 – October 2023

- · Designed a centrality analysis tool in C++ to analyze the structural importance of nodes in complex networks.
- · Achieving an average computation time of 1 second for networks with up to 3,000 nodes.
- Implemented Graph Theory concepts and utilized graph data structures and algorithms to represent network topology and efficiently compute centrality metrics.
- Refined and developed my own graph library for specialized operations.

TECHNICAL SKILLS

Languages: C/C++, Python, SQL

Developer Tools: Git, VS Code, Anaconda, MySQLWorkbench, Docker

Libraries: Pandas, NumPy, Matplotlib, Scikit-learn, Flask, OpenCV, Spacy, NLTK, GenSim

ACHEIVEMENTS

Awarded with **Merit-3** scholarship for Academic performance.