Anirudh

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Education

Thapar Institute of Engineering and Technology **8.04**
Bachelor of Engineering in Computer Engineering *2021-2025*

Government Model Sr. Secondary School Manimajra, Chandigarh **96.8%**
All India Senior School Certificate Examination, CBSE *2021*

Manav Mangal High School, Chandigarh **95.0%**
All India Secondary School Examination, CBSE *2019*

Projects

Stock Influencers Scoring | *React, Selenium, chart.js* **March 2023**

- Utilized advanced web scraping techniques to extract and analyze data from over **1,00 stock influencers** from sources like news websites.
- Displayed historical trends of **500+ stocks** with **interactive graphical** representations using chart.js.
- Developed a Front-End Application that **displayed Influencers with the highest score** and **Stock database for easy access** to the customers,Enabled bookmarking and profile saving for personalized user experience,**increasing user engagement by 35%**.

Network Intrusion Detection | *Kaggle [Pandas, Numpy, Optuna, Scikit-learn]* Link **September 2023**

- Designed a pipeline using Python libraries to preprocess data, select features, and perform hyperparameter optimization across **12 models**, processing over **10,000 data points**.
- Conducted extensive experiments, achieving high test scores for models: KNN 94.6, Logistic Regression 93.2, Decision Tree 90.4, Random Forest 95.8, Naive Bayes 88.7, SVM 94.1, and Voting Classifier **95.9**, optimizing hyperparameters over **30 trials** for each model.

Mon Journal | *NLTK, pandas, sklearn* **October 2023**

- Created and trained a Mental disease detector AI program that uses journals and compares them to pre-determined **diagnosed journals** using NLP and other python modules such as nltk, pandas, sklearn.
- Performed tokenization, similar case conversion, stop words removal, lemmatization thus **reducing text by25%**.
- Classified diseases into **7 different classes** and was able to successfully determine the correct mental illness with an **accuracy of 73%**

E-Notarization with Blockchain | *MERN [React,Express, Node, MondoDB], Solidity* **March 2024 - Ongoing**

- **Designed smart contracts** written in Solidity Programming language to **manage and Access control** over accounts and acheive seamless data upload to Etherium blockchain
- Enforced a blockchain system with double hashing and utilized **Zero Knowledge Proofs**(ZKP) to ensure data safety.
- Seamlessly integrated blockchain with Front-end Application ,Used Solutions like Rollups to reduce transaction times by upto 40%

Skills

Programming Languages: C, C++, Python, Html, Css, Solidity.
Development & Framework: Git, React, Tailwind.
OS: Windows & Linux.
Software's: Matlab, Wireshark, GNS3, Cisco Packet Tracer, Burp Suite
Soft Skills: Communication, Problem-solving, Critical Thinking, Attention to Detail, Collaboration & Adaptability.

Coursework

- Data Structures
- Object Oriented Programming
- Design & Analysis of Algorithms
- Machine Learning
- Artificial Intelligence
- Software Engineering
- Database Management Systems
- Network Defence
- Ethical Hacking

Certifications

* **CompTia Network+** Link
* **CompTia Security+** Link