Tejas Lohia

Quantitative, Analytical and Curious

⊙ Indian Institute of Technology, Gandhinagar | ☎ +91 9404844976 | @ 23110335@iitgn.ac.in

About Me:

Second-year Computer Science and Engineering undergraduate at the prestigious Indian Institute of Technology Gandhinagar with a proven academic track record and a strong foundation in analytical problem-solving. Deeply engaged in quantitative finance, machine learning, and data science, complemented by a minor in mathematics to sharpen technical expertise.

Profiles

in LinkedIn

○ Github

   Portfolio Website

Education

Indian Institute of Technology, Gandhinagar Aug'23 - Present

Computer Science and Engineering Bachelor of Technology

CPI: 9.29 / 10.0

🔗 https://iitgn.ac.in

Aditya English Medium School May '21 - Apr'23

Science Senior Secondary

94%

Selected Projects

TinyWL Window Manager for Linux in C Dec'24 - Present

Advisor: Prof. Balgopal Komarath

• Developing a custom window manager, TinyWL, in C, focused on adding advanced features such as dual-window display, stacking, tiling, and window merging (snapping).

MLP based Test Generator Aug'24 - Nov'24

Advisor: Prof. Nipun Batra

🔗 https://es335-24-fall-assignment-3-krusty-krabs.streamlit.app

Developed and implemented a sophisticated text generation model from the ground up using a Multi-Layer Perceptron (MLP) architecture, leveraging the rich linguistic patterns from Shakespearean text for training.

Quantitative trading Oct'24 - Present

🔗 https://github.com/TejasLohia21/Quant_strat

Developing cryptocurrency trading strategies focusing on Ethereum and Bitcoin, incorporating technical indicators, machine learning models, and risk management techniques using.

Academic Profile

Relevant Courses

Machine Learning **(9/10)**, Data Structures and Algorithms **(9/10)**, Data Centric Computing **(9/10)**, Introduction to Computing **(10/10)**, Discrete Mathematics **(9/10)**, Introduction to Complex Analysis **(10/10)**

Achievements

Awarded **Dean's List for Academic excellence** for exceptionally well academic performance.

Awarded **Academic Citation** in third Semester for Academic Excellence at IIT Gandhinagar.
Recieved **Branch change** from Electrical to CSE based on academic excellence.

Ranked First in both the semesters of first year in Electrical Branch.
IIT Gandhinagar contingency Member in **Inter IIT Tech - 13.0** in the high prep. problem by **Zelta Automations**.

Position of Responsibility

Core Member -Astronomy Club   Jan'23 - Present
IIT Gandhinagar

• Organized and conducted hackathons and deep-sky observation sessions for public, fostered collaborations with esteemed astronomical organizations such as IUCAA (Pune) and JVP Pune

• Led the team in exploring and implementing various astrophotography techniques by organizing observation sessions and interactive workshops to teach methods and best practices.

• Spearheaded the development and application of advanced algorithms including panorama stitching, noise removal, data compression, and derotational models for high-quality astrophotography.

Core Member - Finance Club   June '24 - Present
IIT Gandhinagar

• Organized hackathons and facilitated community understanding of credit, loans, banking concepts, and budget analysis for 2024.

• Guided and collaborated with individuals in the community to explore quantitative finance and deepen their knowledge of the financial world.

Skills

Programming Languages
● ● ● ● ●
C, C++, Python, SQL, Matlab, Verilog

Python Libraries
● ● ● ● ●
Numpy, Matplotlib, Pandas, CV2, Tensorflow, PyTorch, Yahoofinance, Scikit-learn, Keras

Software Tools
● ● ● ● ●
Git, Docker, Jupyter Notebooks, AWS, Autodesk, Arduino, Xilinx Vivado