

Shivam Garg

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EDUCATION

Delhi Technological University

New Delhi, IN

Bachelor of Technology in Computer Science and Mathematics (CGPA: 8.45/10.00)

Nov. 2022 – May 2026

Relevant Course Work: Data Structures, Algorithm Design & Analysis, Probability and Statistics, Operating Systems, OOPS

EXPERIENCE

Quantitative Research Consultant

Jul. 2024 – Present

WorldQuant

Remote

- Developed and deployed **15** alpha strategies at **WorldQuant Brain**, using unconventional data sources to conduct research and statistical analysis.
- Demonstrated **quantitative analysis** and **algorithmic trading** expertise by designing and implementing effective alpha models in the **12-USA** and **3-CHN TOP3000** regions
- Achieved an average **Sharpe 1.95**, **Turnover 19.24%**, **Return 13.74%**, **Drawdown 9.82%**

PROJECTS

EEGSync | Python, Deep Learning

Jun. 2024 – Jul. 2024

- Built a **EEG-based Cognitive State Classification Model** utilizing key libraries such as pandas, numpy, sci-kit-learn, matplotlib, pytorch, opencv, tensorflow for data preprocessing, model building, and visualization
- Conducted **Power Spectral Density analysis** and **Time-Series feature extraction** across Delta, Theta, Alpha, Beta, and Gamma bands.
- Evaluated model performance with precision, recall, and F1-score metrics, ensuring a robust and reliable detection system, achieving an **accuracy of 95%** with Deep Learning models including EEGNet with MNE and PyEDFlib

CCFraud | Python, Machine Learning

May 2024 – Jun. 2024

- Built a **Credit Card Fraud Detection Model** utilizing key libraries such as pandas, numpy, sci-kit-learn, and matplotlib for data preprocessing, model building, and visualization
- Performed data cleaning and feature engineering on a dataset of **284,807 transactions**
- Evaluated model performance with metrics such as precision, recall, and F1-score, ensuring a robust and reliable detection system, achieving an **accuracy of 86%** with logistic regression

TECHNICAL SKILLS

Languages: C, C++, Python, JavaScript, HTML, CSS, MATLAB, R

Frameworks: ReactJS, NodeJS, MongoDB

Developer Tools: Git, VS Code, PyCharm

Libraries: Pandas, Numpy, Matplotlib, Scikit-Learn, PyTorch, OpenCV, NLTK, TensorFlow, spaCy

ACHIEVEMENTS

- Walmart USA** Advanced Software Engineering Virtual Experience Program on Forage - July 2024
- Solved **over 450** problems on LeetCode, GFG, CodeForces
- Secured **Rank 2** in the Trading Challenge MockStocks and won **2500 INR**
- Achieved **Global Rank 699** and **All India Rank 329** in International Quant Championship Stage 2
- Reached **GOLD Level** on WorldQuant BRAIN

[Certificate](#)

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POSITION OF RESPONSIBILITY

President

Jan. 2023 – Present

Molecule Mastermind DTU

New Delhi, IN

- Built a **student society of 5** to provide chemical literacy and implemented a way to recycle Poly-Urethane waste
- Led a **team of 3** to organize a PU hackathon for students of **ICT MUMBAI**, **IIT BOMBAY**, and **IIT DELHI** for innovation on PU recycling
- Managed to get **300+** views and **30+** registrations on **UNSTOP** for the PU Hackathon