

# CHAITYA SHAH

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## EDUCATION

### Dwarkadas J Sanghvi College of Engineering

B.Tech in Computer Science and Engineering with Minors in IoT and Industry 4.0

Graduated June 2025

Mumbai, India

- CGPA: 8/10

## EXPERIENCE

### Quant Analyst

LeapUp India

September 2024 – November 2024

Mumbai, India

- Backtested stock market strategies on over 10 years of historical data using Python, TA-Lib, BackTrader, and SQL.
- Analyzed over 1 million data points to optimize trading models, improving data processing efficiency by 20%.
- Collaborated with traders to refine quantitative strategies, leading to the proposal of a new mean-reversion strategy with a projected 1.2 Sharpe ratio.

### Blue Team Intern

DeepCytes

September 2024 – December 2024

Remote

- Performed in-depth network security analysis utilizing Wazuh, Suricata, and Wireshark.
- Identified 15+ critical vulnerabilities, including SQL injection and Cross-Site Scripting (XSS), using Burp Suite.
- Implemented robust security patches and firewall rules, enhancing system resilience against common web application attacks.

### Machine Learning Intern

InternPe

September 2023 – October 2023

Remote

- Engineered and deployed predictive models, including Logistic Regression and Random Forests using Scikit-learn, which improved customer acquisition by 15% and reduced customer churn by 8%.

## PROJECTS

### Portfolio Optimization with Temporal Fusion Transformer (TFT)

June 2024 – December 2024

- Developed a deep learning model for stock price forecasting and dynamic portfolio balancing.
- Integrated technical indicators and employed explainable AI (XAI) for model transparency and performance improvement.
- Designed a user-facing dashboard with React Native for real-time visualization of portfolio performance.

### IoT & Machine Learning-Based Fruit Detector

- Engineered an image acquisition system with an ESP32 camera to automate the detection of fruit quality.
- Trained and fine-tuned a ResNet model that achieved over 90% accuracy in fruit grading classifications.
- Optimized image preprocessing workflows, resulting in enhanced model performance and reduced computational load.

## TECHNICAL SKILLS

**Languages:** Python, SQL, C, Arduino

**Web Development:** HTML, CSS, JavaScript, React

**Frameworks & Libraries:** Pandas, NumPy, Matplotlib, Sci-Kit Learn, Seaborn, TA-Lib, BackTrader, Pyfolio

**Data Visualization Tools:** Excel, Power BI, Tableau, MySQL

**Cybersecurity Tools:** Kali, Wireshark, Metasploit, Burp suite, Wazuh, OpenCTI

**Platforms & IDEs:** Jupyter Notebook, Visual Studio Code, Pycharm

**Design:** Figma, Adobe Suite

## CERTIFICATIONS

- Google Cybersecurity Professional Certificate
- JPMorgan Chase & Co. Excel Skills Completion Certificate
- Complete Excel - Kyle Pew

## EXTRACURRICULAR ACTIVITIES

- Senior Mechanical Member, DJ Sanghvi Rover Team (Add Dates)
- Social Media Head, DJS Dramatics Club (Add Dates)