

Tanay Uplanchiwar

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Education

- **Vellore Institute of Technology** | B. Tech. in Computer Science Engineering | **CGPA: 8.8** Sep 2021 - Sep 2025
- **Aditya Birla Public School** | Higher Secondary Education | **Grade: 88.6%** Mar 2020 - Mar 2021
- **Sardar Patel Vidyalaya** | Senior Secondary Education | **Grade: 92.6%** Mar 2018 - Mar 2019

Work Experience

Aermat Creative Labs

Dec 2021 - Feb 2022

Data Analyst Intern

- Facilitated the team in collecting aerial data using drones for mapping and surveying, covering over 50,000 square meters, and processed the data using GIS software, reducing processing time by 30%
- Co-ordinated to the development of drone software, enhancing performance and user experience for over 100 users
- Influenced in testing and calibrating drone hardware components such as motors, batteries, and sensors, improving reliability by 25%

Projects

Stock/Crypto Trading Strategy Using EMA, RSI, and MFI:

- Developed an automated trading strategy using Pine Script on TradingView, combining 200-period EMA with RSI and MFI indicators to create robust buy/sell signals, achieving a backtested annual return of 25%
- Formulated a precise risk management model featuring automatic stop-loss and target price calculations; achieved a Sharpe ratio of 1.8, demonstrating a significant enhancement in the investment strategy effectiveness
- Executed trades automatically based on predefined conditions, improving consistency and discipline while maintaining a maximum drawdown of 10%

Stock Price Prediction Using Sentiment Analysis:

- Conceptualized the financial API of Yahoo Finance to gather historical stock price data of over 10,000 data points and extracted sentiment scores and polarity from financial news and social media data
- Implemented Machine Learning classifiers (Naive Bayes, Support Vector) achieving an 85% accuracy rate for analyzing market sentiment
- Built a stock price prediction model using linear regression with a mean absolute error (MAE) of 3%

Equity Investment Model Using Bollinger-Bands and EMAs:

- Engineered a Pine Script algorithm in TradingView to generate buy and sell signals through the integration of Bollinger Bands and Exponential Moving Averages (EMA)
- Implemented automated signal generation based on the interaction between Bollinger Bands and EMA, enhancing trade timing and accuracy
- Conducted thorough backtesting and optimization to ensure strategy reliability and performance across various market conditions

Skills

Languages: Python, HTML, CSS, Javascript, Java, SQL, PHP

Certificates

[NPTEL Cloud Computing](#)(Top 5% rank), [MERN Full Stack Development](#), [The Bits and Bytes of Computer](#), [Introduction to Front-End Development by Meta](#)

Hobbies and Languages

Hobbies: Strategic Crypto and WEB3 Investor, Geopolitics and Economics Enthusiast

Languages: English, Hindi, German(A2 proficiency), Marathi