Sanika Awal

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EDUCATION

B. Tech in Computer Science (AI & ML Specialization)   **May'21 – May'25**
- VIT University, Bhopal, India   (Expected)
- CGPA: 8.3/10

Higher Secondary Education   **May'20 – May'21**
- St. Aloysius, Jabalpur, India
- Percentage: 79%

PROFESSIONAL EXPERIENCE

TALLY SOLUTIONS   **Oct'24 - Jan'25**

Software Development Engineer Intern
- Developed and optimized financial ERP solutions using Win32 API, improving usability by 35%.
- Created visually engaging UI elements for handling real-time financial data within an ERP system, leading to improved navigation speed by reducing load times from five seconds to two seconds across key interfaces.
- Integrated advanced data handling modules into existing software architecture, ensuring seamless synchronization of real-time financial updates while adhering strictly to compliance standards with zero errors reported during audits.

PROJECTS

Ultra-Fast Algorithmic Trading Bot   **Sept'24-Dec'25**
- Developed a high-frequency trading bot in C++ & Python with low-latency execution for stock/crypto markets.
- Designed a multi-threaded architecture to process real-time market data in microseconds, reducing trade execution delay.
- Implemented Market Making, Statistical Arbitrage, and Momentum Trading strategies.
- Integrated FIX Protocol & WebSockets for live trade execution and backtesting using historical data.
- Optimized latency & order book processing using efficient data structures and parallel computing techniques.

Financial Market Sentiment Analyzer & Risk Prediction System   **May'24-Sept'24**
- Developed an AI-powered system that scrapes real-time financial news (Yahoo Finance, Bloomberg).
- Built NLP models for sentiment analysis to assess market trends with 85% accuracy.
- Implemented LSTM-based Stock Market Prediction Model to forecast next-day price movement.
- Integrated Yahoo Finance API & NewsAPI to collect live stock prices and news articles.
- Designed interactive risk analytics dashboards using Plotly & PowerBI for investment insights.

STOCKIFY – Stock Market Web App   **Nov'23 – Jan'24**
- Created Stockify Hub, offering comprehensive stock market data, news, and portfolio management; increased site traffic by 45% and Strengthened user portfolio tracking accuracy by 20% through advanced algorithms.
- Produced a robust backend using Python 3.7.7, Django, and Django Rest Framework; Improved database queries with SQL, resulting in a 35% reduction in server response time.

TECHNICAL SKILLS

- **Technical Skills**: Java, Python, .NET Core, Machine Learning
- **Databases**: SQL Server, MySQL, MongoDB
- **Development**: React.js, Angular, .NET Core, Node.js, RESTful API Development
- **Additional Skills**: Financial modeling and analysis, Flask, Power BI
- **Financial Analysis Tools**: Yahoo Finance API, Alpha Vantage
- **Blockchain & DeFi**: Solidity, Web3.js, Smart Contracts (Basic)

CERTIFICATIONS
- Applied Machine Learning (Coursera)
- Software Engineering Job Simulation - JP Morgan Chase & Co.
- Financial Modeling & Algorithmic Trading – Udemy
- Stock Market & Risk Analytics – Udacity

EXTRA CURRICULAR
- Founded the innovative Event Management Company called Catastrophe
- Served community service events for NSS District Camp
- Managed Sponsorship & Logistics Department in A.I.E.M Club