

CHAHANAA NIROV SHETH

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SUMMARY

Innovative Flutter & IoT developer and data-science enthusiast with hands-on experience building end-to-end mobile and embedded systems. Proven track record in delivering scalable, performance-driven solutions for real-time data processing and fleet/energy monitoring. Passionate about connected-vehicle intelligence and eager to leverage deep learning, cloud technologies, and telematics to drive actionable insights.

WORK EXPERIENCE

Data Science Intern • Amber Innovations Limited

- Built a real-time stock prediction app using Streamlit with ML models and financial news sentiment analysis.
- Handled data preprocessing, feature engineering, and model evaluation using NewsAPI.
- Used LSTM and Random Forest; compared results via MAE/RMSE.
- Designed an interactive dashboard with charts, dark/light mode, and news summarization.
- Delivered end-to-end integration: APIs, cleaning, model training, deployment, and insights.

App Lead & Flutter Developer • Vertex Innovate

- Developed Vertex, a Flutter-based app connecting students, mentors, and startups via verified project showcases and real-time mentorship. Integrated Firebase for user auth, dynamic project uploads, mentor session bookings, and push notifications. Ensured clean architecture, responsive UI, and scalable performance across platforms.
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PROJECTS

IoT-Based Smart Power Regulation System

Finalist – IEEE YESIST12 2025, WePOWER Track | Team ID: WP25D1449954

- Developed an ML-integrated smart plug using ESP32 and energy metering ICs for automated energy control and anomaly detection. End-to-end system architecture that includes hardware, firmware, a cloud backend, and a responsive React dashboard.
- Utilized LSTM and Autoencoder models for usage prediction and anomaly alerts, featuring real-time data visualization and remote control through a secure mobile-friendly UI.

Real-Time Stock Market Prediction Dashboard

- Built an interactive Streamlit dashboard integrating ML models (LSTM, Random Forest) with yFinance and NewsAPI for stock price forecasting and sentiment-based analysis.
 - Implemented end-to-end pipeline: data preprocessing, model training, performance evaluation (MAE, RMSE), and real-time visualization with modern UX/UI, and news summaries.
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EDUCATION

B.Tech Computer Science Engineering (Artificial Intelligence & Machine Learning) Vellore Institute of Technology(Chennai) **Aug 2023 - May 2027**

- Developed an AI-powered attendance system using Arduino and facial recognition.
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ADDITIONAL INFORMATION

- **Programming & Development:** Python (Pandas, TensorFlow), C, C++, Java, HTML, CSS, JavaScript, React, Dart(Flutter), Streamlit
- **Databases & Backend:** SQL, PostgreSQL, Firebase, API Integration, AWS
- **Languages:** English, Hindi, Tamil and Gujarati **Certifications:** C Programming Training – Spoken Tutorial Project, IIT Bombay. Successfully completed C Test at VIT Chennai, scoring 87.50%