Devendra Bainda

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EDUCATION

Indian Institute Of Technology Roorkee - B-Tech, Electrical Engineering **2022 - 2026**

Matrix High School - XII, Science - GPA: 95.6 **2020 - 2021**

PROJECTS

Hinglish Cold Calling AI Agent **Feb 2025 - Mar 2025**

- Developed and implemented the Hinglish Cold Calling AI Agent, a voice-enabled assistant for conducting automated business calls in Hinglish
- Supported three key business scenarios: scheduling ERP system demos, conducting candidate interviews, and following up on payments
- Utilized speech recognition technology to understand user input, AI language models for processing, and synthesized speech for natural-sounding responses
- Designed the agent to feature both terminal and graphical interfaces for user convenience.

Object Motion Tracking System **Dec 2024 - Present**

- Spearheaded the development of an innovative Object Motion Tracking System utilizing YOLOv11n detection and Kalman filtering
- Implemented a cutting-edge approach to accurately predict and track object motion by identifying moving objects with YOLOv11n model and applying Kalman filters for future positions estimation
- Ensured seamless tracking of objects despite visual obstructions or rapid movements by combining advanced technologies in computer vision

Stock Price Predictions Using Supervised Learning **Dec 2024 - Dec 2024**

- Developed Tesla Stock Price Prediction System using supervised learning algorithms to forecast Tesla's stock performance based on historical market data from Kaggle
- Applied various machine learning techniques to identify unique factors influencing Tesla's stock volatility and growth trajectory
- Trained supervised learning models to recognize Tesla-specific market patterns, potentially offering more reliable forecasting for this high-growth technology stock

Lung Cancer Classification Using CNN **Dec 2024 - Dec 2024**

- Developed Lung Cancer Classification System leveraging a fine-tuned ResNet50 deep learning model that accurately categorizes histopathological images into benign tissue, squamous cell carcinoma, and adenocarcinoma with 98% accuracy.
- Created a responsive Flask-based web application with intuitive drag-and-drop interface that delivers instant classification results, making advanced diagnostic tools accessible to medical professionals.
- Built an end-to-end machine learning pipeline from data preprocessing to model deployment, demonstrating strong full-stack development and ML engineering capabilities.

SKILLS

Programming **:**Python, C++, JavaScript, HTML, CSS

Machine Learning **:**Supervised Learning, Unsupervised Learning, Neural Networks, Computer Vision, LLMs