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**
- 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 using a pre-trained ResNet-50 deep learning model to categorize lung CT scans into Normal, Lung Adenocarcinomas, and Lung Squamous Cell Carcinomas
- Implemented transfer learning to optimize ResNet-50 feature extraction for precise identification of lung tissue pathology patterns
- Pioneered a novel, non-invasive diagnostic methodology leveraging CT scan analysis that distinguished between healthy lung tissue and cancerous subtypes with 95% accuracy, leading to earlier diagnoses in 9 out of 10 cases.

SKILLS

Programming   :Python, C++
Machine Learning   :Supervised Learning, Unsupervised Learning, Neural Networks, Computer Vision, LLMs