Hevardhan Saravanan

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Education

Symbiosis Institute of Technology — Pune, India
B.Tech in Artificial Intelligence and Machine Learning — *Aug. 2022 – June 2026*

Experience

Research Intern — June 2024 – Present
Symbiosis Centre for Applied AI — *Pune, India*
- Responsible for conducting a research on Predictive Maintenance of urban metro public transportation service in Porto, Portugal.

Web Development Lead — July 2024 – Present
Google Developer Student Club (SIT) — *Pune, India*
- Responsible for web development projects, organizing events, and managing the GDSC SIT website.

Campus Ambassador — July 2024 – Present
GeeksForGeeks — *India*
- Promoting *GeeksForGeeks* and engaging the student community to enhance programming skills and awareness.

IBM SkillsBuild Intern — July 2024 – Aug 2024
Edunet Foundation — *India*
- Gained expertise in IBM Cloud Fundamentals and IBM Watson.

Projects

BullsEye (Trade Bot) | *Python, Tensorflow, MetaTrader5, Sklearn, Git* — June 2023 – Present
- Implementing *live scraping* of candlestick data across 1-minute, 10-minute, and 15-minute timeframes.
- Applied statistical indicators such as *Simple Moving Average (SMA)*, *Moving Average Convergence Divergence (MACD)*, and *Bollinger Bands* to generate trade signals.
- Analyzing the signals in real-time and optimizing them using *machine learning* and *deep learning* algorithms.

Predictive Maintenance | *Python, Sklearn, Tensorflow, PyTorch, Git* — Jun 2024 – Present
- Conducted a detailed analysis of sensor data and *classified failures* into two categories: *Air leak* and *Oil leak*.
- Applied various machine learning techniques, including *Random Forest Classifier* and *Logistic Regression*, resulting in an accuracy of 96.4%.
- Working on the implementation *Temporal Fusion Transformer (TFT)* to get more accurate and reliable results.

Flight Trajectory Prediction | *Python, Django, Sklearn, Tensorflow, Git* — Jan 2024 – May 2024
- Developed a full-stack web application using Django, HTML, CSS and Vannila JS.
- Implemented various machine learning models, including *Random Forest Regressor* and *Support Vector Machine (SVM)*, along with deep learning models such as *Long Short-Term Memory (LSTM)* and *Convolutional Neural Networks (CNN)*, to classify flights based on *Standard Arrival Routes (STAR)*, achieving a 97.5% accuracy.

Achievements

Participant, Amazon ML Summer School — July 2024
Amazon — *India*

Participant, Google Solution Challenge — March 2024
Google Developer Student Club — *India*

3rd Place, Build-a-Thon Hackathon Competition — May 2024
IEEE Education Society Symposium — *Pune, India*

Technical Skills

Languages: Python, C, SQL, JavaScript, HTML/CSS, R, Java, MQL5.
Frameworks: ReactJS, Node.js, Flask, Django.
Developer Tools: Git, Google Cloud Platform, VS Code, Visual Studio, IntelliJ, Eclipse.
Libraries: Pandas, NumPy, Matplotlib, Plotly, Sklearn, Tensorflow, Pytorch.
Cloud Platforms: AWS, Azure, IBM Cloud.