Abhishekh P R

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SUMMARY

Software Developer and Machine Learning Engineer with experience in data science and strong Python skills. Hands-on expertise in full-stack development, deep learning, and time-series data analysis. Skilled in building scalable software systems and deploying ML models in production environments.

EDUCATION

SRM Institute of Science and Technology, Chennai, India
BTech in Electronics and Communication Engineering 2021 - 2025
GPA: 7.99

TECHNICAL SKILLS AND TOOLS

Programming Languages: Python, JavaScript, HTML5, CSS
Frameworks/Libraries: PyTorch, TensorFlow, NumPy, Pandas, scikit-learn, Plotly, Matplotlib, Seaborn
Developer Tools: Git, FastAPI, LaTeX
Core Skills: Machine Learning, Time-Series Analysis, Data Visualization, Model Optimization, Data Cleaning

EXPERIENCE

Software Developer Intern [View Certificate] Mar 2025 – Present
Bosch Global Software Technologies, Bangalore, India

- Built a full-stack web application for real-time vibration analysis using Python, JavaScript, and FastAPI, connecting the backend with a dynamic frontend.
- Designed interactive time-series visualizations using Plotly, Seaborn, Matplotlib, and CSS to monitor sensor data and detect abnormal vibration patterns.
- Developed a custom data pipeline using regular expressions to extract structured information from PDF, XML, and MF4 files, converting it into JSON and Excel formats for database creation.
- Collaborated with a cross-functional team to integrate ML solutions into a real-time system, following Agile development practices to ensure deployment readiness, code quality, and performance.

Best Paper Award – 5th International Conference on Internet of Things (ICIoT 2025) April 2025
Unified Health and Motion Monitoring Wearable for Senior Citizens [View Certificate]

- Used Python and regular expressions to extract and clean time-series data from raw sensor logs, preparing it for model training.
- Built a lightweight LSTM model using PyTorch for classifying fall types, optimized for real-time inference on an STM32 microcontroller with OLED output.
- Achieved 90% accuracy using real-world motion datasets; used NumPy and Pandas for signal processing and scikit-learn for evaluation.
- Visualized results using Matplotlib and confusion matrix plots to validate performance across multiple fall scenarios.

CERTIFICATIONS

Python for Data Science and Machine Learning (Udemy) [View Certificate]
The Complete Data Structures and Algorithms in Python (Udemy)[View Certificate]