Jayalakshmi K

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PROFESSIONAL SUMMARY

Machine Learning Engineer with expertise in AI, deep learning, NLP, and big data analytics. Proven ability to develop and deploy ML models for real-world applications, optimize AI algorithms, and integrate solutions with IoT and cloud platforms. Adept at big data processing, predictive analytics, and AI-driven automation. Seeking to leverage technical expertise to drive innovation in the Qatar Government Project.

KEY SKILLS AND TOOLS

- **Machine Learning & AI:** TensorFlow, PyTorch, NLP, Deep Learning, YOLO, OpenCV
- **Big Data & Cloud:** Hadoop, Spark, AWS, Azure IoT Hub
- **Data Processing & Analytics:** Python (NumPy, pandas, scikit-learn), SQL, Power BI, Tableau
- **Software Development & Deployment:** Docker, Kubernetes, Cloud Computing
- **AI & IoT Integration:** Edge AI, Embedded Systems, Predictive Maintenance
- Soft Skills: Problem Solving, Analytical Thinking, Team Collaboration

WORK EXPERIENCE / INTERNSHIP

Oralens Healthcare Pvt Ltd
Apr '24 - Present
AI & IoT Intern

- Developed machine learning models for bio-signal processing, improving efficiency by 30%.
- Deployed AI-powered applications in embedded IoT environments, optimizing real-time analysis.
- Integrated deep learning with IoT devices for real-time health monitoring.
- Worked with Azure IoT Hub & AWS IoT for AI-driven healthcare solutions.

GRIP, The Sparks Foundation
Jan '24 -Mar '24

- Conducted data cleaning, statistical analysis, and machine learning model development using Python libraries.
- Developed scripts for data extraction and manipulation, ensuring datasets were prepared for predictive analytics.
- Built and optimized machine learning models, achieving 85% accuracy in customer churn prediction.
- Communicated insights effectively through data visualizations using Matplotlib and Seaborn.

Robert Bosch Engineering & Business Solutions
Jan '11 -May '14

- Designed, modified, and developed application software (Diagnostic services) for Engine ECU based on OEM requirements.
- Specialized in PSA Peugeot Citroën AUTOSAR projects, working with diesel, gasoline, and hybrid technologies.
- Proficient in AUTOSAR V3.4, UDS Protocol, and Can Communication.
- Executed automated testing using Python, showcasing a commitment to efficiency and quality.

PROJECTS

- *YOLO-Based Fall Detection for Elderly: Designed and deployed a real-time computer vision model for fall detection, achieving high accuracy for healthcare applications.*
- *IoT-Enabled Object Detection: Built and optimized an object detection system using YOLOv5, integrated with IoT platforms for real-time monitoring on edge devices.*

- *Customer Retention Prediction: Developed machine learning models to predict customer churn, achieving 85% accuracy through feature engineering and statistical modeling.*

EDUCATION

Executive Post Graduate Certification – Data Science & Artificial Intelligence, iHUB DivyaSampark, IIT Roorkee
06/2023 – 09/2024

Executive Diploma – Cyber Security, Mizoram University
08/2024 – 09/2025

Master of Business Administration (MBA) – Production and Operation Management, Alagappa University, India
05/2015 – 08/2018

Master of Engineering (ME) – VLSI Design (Electronics & Communication Engineering), PSG College of Technology, Coimbatore, India

05/2008 – 05/2010

CERTIFICATIONS

- Microsoft: Azure Data Scientist Associate (06/2024 – 06/2025)

- Agile Scrum Master | September 2024

- Ms SQL Developer Course (07/2023 - Present)

- Introduction to Embedded Machine Learning - Edge Impulse (Issued Jun 2024)

- Getting Started with Azure IoT Hub - Coursera Project Network (Issued Dec 2023)