PRABU JAYANT

Bangalore, India

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Education

RV College of Engineering	Bangalore, India
B.E. in Computer Science Engineering (Cybersecurity), GPA: 8.7	*Aug 2022 – May 2026*

- Relevant Courses: Operating Systems, Data Structures, Analysis of Algorithms, Computer Networks

EXPERIENCE

Juniper Networks	July 7, 2024 - Present
Project Intern	*Bangalore, India*

- Utilized **proxy tools** (**AnyProxy**) and **packet capture software** (**Wireshark**) for **traffic analysis**, and **programming languages** (**Python**) for **data processing** and **ML model development**.
- Analyzed **14 SaaS services**, extracted **relevant fields**, and developed **regex patterns** for efficient **data processing**.

SkySecure Ltd	Nov 2023 – Dec 2023
Research Intern - AI in Cybersecurity	*Bangalore, India*

- Developed an **LSTM-based Network Intrusion Detection System** providing real-time protection against financial fraud and data breaches. Utilized the sequential data analysis capabilities of **LSTM** to detect anomalies in network traffic patterns, achieving an **accuracy of 92.83%** and an **F1 score of 94.25%**.

PROJECTS

News Application ⧉ | HTML5, CSS3, JavaScript, News API

- **Created a responsive news app, retrieving over 10,000 real-time articles daily,** featuring categorized browsing and enhanced user interaction.

Book Store Management System ⧉ | MERN Stack, MongoDB, Express.js, React, Node.js

- Built scalable, secure e-commerce platform using MERN Stack.
- Implemented robust user authentication, authorization and CRUD operations.
- Demonstrated expertise in cloud-ready, microservices-based architecture.

MediSync ⧉ | IoT, Machine Learning, PCA, Isolation Forest, Z-score, Python, TensorFlow

- **Developed an IoT healthcare system** using PCA for anomaly detection, comparing **3 principal components** to analyze vital signs. Achieved **early detection of anomalies** with real-time data processing and visualized results for actionable insights.

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, JavaScript, HTML, CSS, MATLAB, SQL, Node.js
AI/ML Frameworks: TensorFlow, PyTorch, Scikit-learn, NumPy, Pandas, Keras, Seaborn, Matplotlib
Web Development: MERN Stack, React, Express.js, MongoDB, Mongoose, Tailwind CSS, Vite
Tools/Technologies: Git, GitHub, VS Code, Jupyter Notebooks, Data Visualization
Soft Skills: Problem Solving, Teamwork, Critical Thinking, Adaptability, Time Management

ACHIEVEMENTS

- **Elcia Tech Hackathon Prize Winner (Top 5, INR 10,000)**

CERTIFICATIONS

- Machine Learning Specialization - DeepLearning.AI
- CCNA 1 - Cisco Certified Network Associate
- Google Cloud Computing Foundations - Google

PUBLICATIONS

- Smart Health Monitoring and Anomaly Detection Using IoT and AI- ICoICI 2024
- Intrusion Detection Using LSTM and Deep Learning - ICCCNT 2024