Roobak Kumar M

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Summary

A motivated B.Tech student specializing in AI & Data Science with a strong foundation in computer science fundamentals. Seeking a Software Development Engineer Internship to leverage skills in C++, Java, and cloud technologies to build scalable and innovative software solutions.

Education

Sri Krishna College of Engineering and Technology — Expected 2027
B.Tech in AI & DS – CGPA: 8.05 — *Coimbatore*

I.V.L Matric Hr. Sec. School — 2023
HSC – Percentage: 92.6% — *Dharmapuri*

Skills

Languages: C++, Java, JavaScript, HTML/CSS, SQL

Core Concepts: Data Structures, Algorithms, DBMS, Computer Networks

Frameworks & Libraries: React.js, Spring Boot (REST API), Scikit-Learn, Pandas, NumPy

Developer Tools & Cloud: AWS, Git, Docker

Experience

Artificial Intelligence Intern — June 2024 – June 2024
Codsoft — *Virtual*

Developed and implemented AI-based solutions during a 4-week intensive virtual internship.

Collaborated with the team to analyze project requirements and contribute to the design of AI models.

Gained hands-on experience in the practical application of machine learning concepts.

Data Science Intern (AICTE OIB-SIP Program) — May 2024 – June 2024
Oasis Infobyte — *Virtual*

Engineered data preprocessing and visualization pipelines for real-time project tasks.

Implemented and evaluated basic machine learning models to extract insights from datasets.

Applied data science techniques to solve problems and contribute to project goals.

Projects

Multi-User AR Application — Dive In
Unity, C#, Photon Engine, AR Foundation — *Collaborative Augmented Reality Experience*

Developed a collaborative Augmented Reality application for multiple users to interact with shared virtual objects in a real-world environment.

Implemented real-time synchronization of user positions and object states using Photon Engine for a seamless multi-user experience.

Budget Tracker — Try It Out
React.js, Spring Boot, SQL — *Full Stack Web App*

Designed and developed a comprehensive full-stack application for tracking personal expenses and managing budgets.

Deployed the frontend on **Vercel** and the backend on **Render**, ensuring high availability and seamless integration.

Built a robust REST API using Spring Boot to handle data persistence and secure client-server communication.

Iris Flower Classification Data Science Project

Python, Scikit-Learn, Logistic Regression, Pandas *Machine Learning*

Developed a Machine Learning model to classify Iris species based on sepal and petal dimensions using Logistic Regression.

Implemented data preprocessing using StandardScaler for feature scaling and visualized class distributions using Seaborn pairplots.

Evaluated model performance using accuracy scores and classification reports to ensure precision in identifying species.

Sales Prediction Analysis Data Science Project

Python, Linear Regression, Matplotlib, Seaborn *Predictive Analytics*

Built a predictive model using Linear Regression to analyze the impact of advertising budgets (TV, Radio, Newspaper) on sales.

Conducted Exploratory Data Analysis (EDA) using correlation heatmaps to identify key variables affecting sales growth.

Visualized regression lines and prediction accuracy to interpret the relationship between marketing spend and revenue.

Certifications

- **Cloud & AI:** AWS Cloud Practitioner, Azure Fundamentals (Microsoft), Google AI Essentials, Learning GCP (Infosys)
- **Technical Skills:** Intro to Cybersecurity (Cisco), Big Data Analytics (Infosys Springboard)
- **Programming:** SQL (Basic), Java (Basic), Problem Solving (Basic) (HackerRank)
- **Professional Development:** Developing Soft Skills and Personality (NPTEL)

Clubs & Activities

Technical Quiz Participant March 2024

i-SYM'24 - National Level Technical Symposium *Hindusthan College of Engineering and Technology*

Paper Presentation Participant October 2024

Spectra Genix'24 - National Level Symposium *KGISL Institute of Technology*