Srirama V

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Profile

As a Computer Science B-Tech student, I am passionate about coding and technology. I constantly seek opportunities to apply and expand my skills in dynamic environments. My goal is to strive for excellence both individually and in team settings. You can explore my work at portfolio.

Education

Manipal Institute of Technology — B.Tech Information Technology, CGPA: 8.51 (2022–2026)
MGM College — Higher Secondary, 95% (2020–2022)
Christian High School — Secondary, 98.5% (2019–2020)

Technical Skills

- **Languages:** C, C++, Java, Python, SQL, JavaScript
- **Concepts:** Data Structures & Algorithms, OOP, Relational Databases, Machine Learning
- **Tools:** Embedded Systems, Linux, Figma, Canva
- **Soft Skills:** Time Management, Leadership, Adaptability, Communication, Teamwork

Projects

- **Readly**
  - Full-stack web app for book enthusiasts, built with *React.js*, *Express.js*, *Node.js*, and *MongoDB*.
  - Collaborated with team members to design key features including smart search, wishlists, and secure authentication.
  - Implemented a responsive UI with *Bootstrap*, demonstrating strong attention to detail and adaptability.
- **Resort Management**
  - Full-stack resort service platform using *React.js*, *Express.js*, and *PostgreSQL*.
  - Coordinated with stakeholders to plan booking workflows and utility service modules.
  - Developed RESTful APIs and a clean frontend interface.
- **ICU Admission Predictor**
  - Developed an ML model to predict ICU admission risk for pediatric respiratory patients.
  - Built a highly optimized data pipeline enabling faster data cleaning, feature extraction, and model training.
  - Reached 92% accuracy through effective preprocessing, feature engineering, and rigorous validation.
  - Used SHAP and LIME to interpret key clinical indicators.
- **UAV State Classifier**
  - Built a UAV state classification system using large-scale time-series sensor data.
  - Designed a scalable pipeline with *Kafka*, *Apache Spark*, and *Hadoop HDFS*.
  - Applied data augmentation to address imbalance and enhance temporal patterns.
  - Trained deep learning models (*RNN*, *LSTM*, *CNN*) for multi-state prediction.
  - Reached 96% accuracy through refined windowing and feature extraction.

Experience

Software Developer, HmmBo Studios — May 2025 – July 2025

- Contributed to a plugin management system for a plugin-based organization.
- Implemented a custom licensing system for plugin activation and validation.
- Deployed the solution on AWS EC2.

Stack Developer Intern, Invenger Technologies — Dec 2024 – Jan 2025

- Developed a medical management system using the MERN stack with ML-based donation prediction.
- Designed appointment scheduling and test result management modules.

Courses and Achievements

- **Patent:** Author of Indian patent *System and Method for Predicting Respiratory Illness*.
- **Publication:** IEEE paper on ML-based survivability prediction.
- **Hackathon:** 4th place at Eureka Hackathon (ICU ML model).
- **IBM Professional Certificate** in Machine Learning (6 Courses)