

Barathram B

Currently pursuing a Bachelor of Engineering in Computer Science at Sri Ramakrishna Engineering College. Gained foundational knowledge in **Front End, Machine Learning, data analysis, and UI/UX design**. Interested in **learning and solving problems**, with experience working in **team settings** and contributing to projects effectively.

PROJECTS

ML Projects

Intrusion Detection System

- Developed a Gated Recurrent Units (GRU)-based Intrusion Detection System (IDS) with an attention mechanism, achieving **98.75%** accuracy and reducing the false positive rate to under **3%**.
- Tested with **5,000+** attack scenarios (e.g., DDoS, SQL injection, phishing), ensuring robust threat detection through iterative training over **220** epochs.

Monetary Smurfing Analytics Model

[Explore](#) 

- Build a machine learning model using CatBoost and Random Forest algorithms to detect potential money laundering activities from transaction data, achieving an accuracy of **99**
- Achieved **0.42** F1-score, balancing precision and recall to optimize fraud detection while minimizing false alerts.
- published in the "International Research Journal on Advanced Engineering Hub (IRJAEH)" e ISSN: 2584-2137.

Helmet Detection System using YOLO

- Designed and implemented a real-time helmet detection system using YOLO (You Only Look Once) object detection model, achieving a detection accuracy of **96%** with a precision rate of **92%**.
- Processed a dataset of **10,000+** images, incorporating diverse scenarios to improve model generalization.

Live in Lab Project

Smart Bus Hub

- Created an innovative GPS-based Bus Tracking System integrating mobile applications used by both drivers and **250+** passengers
- reduced average waiting times by approximately **30** minutes during peak hours through accurate location updates.

Web Development Project

Storify Fashions

[Explore](#) 

- Developed and implemented a responsive and visually appealing **front-end design** for the Storify Fashion website, focusing on fashion e-commerce.

CONTACT

- Coimbatore
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- [GitHub](#)
- [linkedin](#)

SKILLS

Hard Skills:

- C
- Java
- Python
- HTML
- CSS
- Javascript
- SQL
- UI/UX Design

Techniques:

- Communication Skill
- Leadership
- Team Work

Tools:

- Excel
- Figma
- Canva
- PowerBI

EDUCATION

- **SSLC - 85%** And **HSC - 85%** | Ravilla KRA vidhyasharam MHSS | 2019-2021
- Sri Ramakrishna Engineering College
- B.E ComputerScience and Engineering | **8.01**
- B.E Cyber security Specialization | **8.25**