Harsha Jain HJ

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Portfolio

EDUCATION

ATME College of Engineering, Mysore 2022 – ongoing
Bachelor of Engineering in CSE-AIML CGPA: 8.94
Sadvidya Semi-Residential PU College, Mysore 2020 - 2022
PCMB 93%

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, SQL, HTML, CSS
- **Frameworks:** Spring Boot, JDBC
- **Databases/Cloud:** MySQL, MongoDB, Firebase
- **Version control and tools:** VSCode, Eclipse, Git, GitHub
- **Relevant Coursework:** Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Databases

EXPERIENCE

Hackathons – National & State level 2022 - 2025

- **Finalist:** "RVCExIITB CTF 2024", RVCE Bangalore: Solved cryptography and reverse engineering challenges; ranked among top finalists nationwide.
- **Winners:** "Invaders", MIT Mysore: National-level hackathon competition.

PROJECTS

Expense tracker — LINK

- Developed and deployed a full-stack Expense Tracker application for managing personal finances efficiently with a secure multi-user environment, created a user-friendly frontend design using React.
- Applied complete CRUD operations with user authentication and authorization using JWT, ensuring secure access and data privacy.
- Integrated MySQL database with Spring Boot and JDBC for seamless data management, and containerized the application using Docker and deployed it on Render.

Employee Management System— LINK

- Engineered an Employee Management application to handle employee and project records with a MySQL database using JDBC.
- Executed CRUD operations with automated table creation and DAO-based modular design.
- Technologies used: Java, JDBC, MySQL

Privacy protected cyber-threat detection using Federated learning — LINK

- Built 4-client federated DDoS CNN (Flower, 99K params) achieving 92.6 percent accuracy.
- Engineered robust Multi-Krum FedAvg (adaptive client selection, anomaly logging, JSON round audits) to resist poisoned updates.
- Compressed dataset 200K→50K (balanced 30 features).

Melanocytic-Nevi classification System using transfer learning — LINK

- Used ResNet50 architecture and transfer learning to classify skin conditions.
- Used Image and pattern recognition techniques to clearly classify melanocytic lesions and normal skin.
- Technologies Used: resnet-50(and other models for comparison), tensorflow, python.

LANGUAGES

Fluent in: English, Kannada
Mother toungue: Tulu