ADARSH **A INAMDAR**

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Summary

B.Tech graduate in Computer Science with expertise in Python, Deep Learning, and Machine Learning frameworks. Completed projects in AI, computer vision, NLP, and metaheuristic deep learning models. Strong analytical skills aimed at developing innovative AI/ML solutions in energy technology.

Skills

- Machine learning and data analysis
- Software development and programming
- Project management and agile practices
- Effective communication and problem-solving
- Database management and NoSQL solutions
- Python programming and web development
- Django and React frameworks
- Scikit-learn and TensorFlow libraries
- Cloud services: Google Cloud Platform and AWS
- API integration and network programming
- Front-end design: CSS, HTML, Tailwind CSS
- Node.js and Express development

Projects

Fake News Detection System

Tech: Python, NLP, Deep Learning, React

- Built an end-to-end system to classify news articles as real or fake using NLP and deep learning models
- Implemented text preprocessing, feature extraction, and model training for accurate classification
- Integrated a React-based frontend to allow users to submit and analyze news content
- Focused on real-world applicability and model performance rather than toy datasets

Library Management System

Tech: Node.js, Express.js, MongoDB, Handlebars

- Developed a full-stack web application to manage books and users in a library environment
- Implemented user authentication, profile management, and CRUD operations for books
- Designed MongoDB schemas and RESTful routes for efficient data handling
- Built server-rendered views using Handlebars for clean and structured UI flow

Metaheuristic Deep Learning Model for Leukemia Classification and Grading

Tech: Python, Deep Learning, Metaheuristic Optimization

- Designed a deep learning model to classify and grade leukemia from medical data
- Applied metaheuristic optimization techniques to improve model accuracy and convergence
- Conducted experiments, evaluated results, and documented findings in IEEE research format
- Focused on the intersection of machine learning and healthcare applications

Sentinel: Real-Time Network Threat Detection System

Tech Stack: Node.js, Express.js, React.js, MongoDB, Socket.io, Tailwind CSS, Recharts

- Designed and implemented an adaptive firewall dashboard for real-time network threat detection using heuristic AI scoring.
- Built a transparent packet-scoring engine that evaluates traffic based on request velocity, port sensitivity, and behavioral patterns.
- Simulated realistic TCP/UDP traffic and attack scenarios (DDoS floods, port scanning) using a custom packet generator.
- Achieved sub-50 ms end-to-end latency and detected 98% of simulated high-volume attacks.
- Developed a human-in-the-loop security workflow with manual block/unblock controls and explainable threat decisions.
- Implemented live traffic visualization and alerts using WebSockets for SOC-style monitoring.

Pulse Chat: Real-Time Messaging Web Application

Tech Stack: React.js, Node.js, Express.js, MongoDB, Socket.io, WebSockets, BCrypt

- Designed a scalable real-time chat system using WebSockets for low-latency, bidirectional communication.
- Implemented a hybrid architecture separating REST-based authentication from Socket.io messaging for scalability.
- Built secure user authentication with BCrypt password hashing and session-based socket authorization.
- Developed an efficient in-memory user-to-socket mapping enabling O(1) message routing between active users.
- Ensured message persistence with a normalized MongoDB schema supporting cross-device chat history.
- Delivered a responsive UI using optimistic state updates for instant message rendering.

Hackathons and Accomplishments

CognitiveX GenAI Hackathon — Volunteer

Rakuten Innovation Conference — Magic Mirror, Voice-to-Code

GMIT Hackathon — 2nd Place

Smart India Hackathon — Participant

Code Quest 1.0 — Volunteer

Manthan Hackathon — Participant

Certifications

Cyber Guru in Cyber Defence — IITJ TISC

Problem Solving (Basic) — HackerRank

Python — Udemy

Agile Scrum Certification — Infosys

MongoDB Python Developer Path — MongoDB University

Education

Bachelor of Engineering: **Computer Science & Engineering** **Expected in 06/2026**
Bapuji Institute of Engineering And Technology Davangere

XII: **PCMCs** **06/2022**
Karnataka Board Davangere

X: **CBSE Board** **04/2020**
Maganur Basappa Public School Davangere

Activities & Interests

Technical event volunteer

competitive programming

blogging

reading

Languages

English: B1
Intermediate (B1)

Hindi: B2
Upper Intermediate (B2)

Kannada: Native
Native