YASH GAWHALE

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EDUCATION

- **PES University, Bangalore, India** *2022 – 2026*
  Bachelor of Technology in Computer Science and Engineering (AI and ML)
  ◦ GPA: 8.52/10
  ◦ Prof. MRD Scholarship recipient (Top 20%) & Distinction Scholarship

- **Narayana PU College, Bangalore, India** *2020 – 2022*
  Pre-University
  ◦ GRADE: 96%

SKILLS

- **Languages:** C, C++, Python, HTML, CSS, JavaScript
- **Machine Learning:** TensorFlow, PyTorch, Scikit-learn, Keras, Pandas, Numpy, Matplotlib, NLTK
- **Core CS Concepts:** Data Structures & Algorithms, OOP, DBMS, Computer Networks
- **Cloud & DevOps:** Docker, Kubernetes, Git, GitHub, Microservices Architecture
- **Databases:** MySQL, PostgreSQL, MongoDB, Database Management Systems (DBMS)
- **Web Technologies:** PHP, Node.js, Flask, Express.js, NGINX, REST APIs, React

EXPERIENCE

- **RAPID Centre, PES University** *June 2024 – Aug 2024*
  Research Intern Bangalore, India
  ◦ Built real-time navigation system for visually impaired using YOLOv8 object detection, achieving 92% accuracy on 10,000+ street images
  ◦ Optimized MQTT-based architecture reducing response latency by 40% for voice feedback delivery

PROJECTS

- **Production-Ready Security Microservices Platform** [O]
  Technologies: Docker, Node.js, Python, Flask, MongoDB, NGINX
  ◦ Designed and deployed a containerized security microservices architecture (access control, vulnerability scanning, bug monitoring, and data encryption) with NGINX API gateway, achieving 100% success in health, integration, and load tests (avg. response time 97ms, 100% success rate under 5 concurrent users).

- **Crime Management System** [O]
  Technologies: PHP, MySQL, JavaScript, Database Design
  ◦ Developed full-stack web application managing 1,000+ crime cases with role-based access control.
  ◦ Optimized database queries reducing case retrieval time by 50% using indexing and query optimization

- **CodeMentor – AI-Powered Learning Assistant Chrome Extension** [O]
  Technologies: PostgreSQL, OpenAI GPT-4, React, TypeScript, Chrome Extension APIs, FastAPI, Docker, LangChain
  ◦ Developed an intelligent Chrome extension integrating AI-driven progressive hints to guide coders on platforms like LeetCode, featuring real-time code analysis, anti-cheating, and personalized learning analytics to enhance self-driven problem-solving.

- **AI-Based Drug Recommendation System for Personalized Oncology** [O]
  Technologies: Python, TensorFlow/Keras (CNN), REST APIs, JavaScript, FastAPI, LLMs
  ◦ Developed a medical platform combining CNN-based MRI tumor classification with detailed molecular analysis of DNA mutations, delivering personalized diagnosis and drug treatment recommendations to enhance precision oncology workflows.

PUBLICATIONS

[1] **A Pipeline of Weak Supervisions for Misinformation Detection**. *ICTIS Bangkok, Thailand 2025*

[2] **Mitigating Catastrophic Forgetting in Temporal Graph Neural Networks**. *Accepted in the Knowledge and Information Systems (KAIS) Journal.*

ACHIEVEMENTS

- Competition Rankings: Achieved **4th place out of 26 teams** at NeuroNex Datathon 1.0 (2023), ranked in the **top 5 among 30+ teams** at the Aura Hackathon, and secured a **top 40 position among 300+ teams** at the **Kodikon-4.0** competition.