

# Yashas M Shetty

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## EDUCATION

### New Horizon College Of Engineering

B.E. in Artificial Intelligence and Machine Learning

Bangalore, KA

Expected May 2026

- GPA: 8.24/10.0
- Related Coursework: Machine Learning, Deep Learning, NLP, Computer Vision, Artificial Intelligence

## SKILLS

**Programming and Frameworks:** Python, HTML, CSS, C++, React.js, SQL, RPA using Automation Anywhere

**Tools:** PyTorch, Tensorflow, Flask, LangChain, RAG, Supabase, MongoDB, Git, Docker, AWS

## PROJECTS

### Proximity detection and safety gear monitoring using computer vision - [YOLOV5]

Bangalore, KA

Team Project

May 2024 – Aug 2024

- Developed a computer vision-based system to enhance site safety by monitoring activities and ensuring workers do not accidentally enter dangerous/hazardous zones in factories and construction sites.
- Utilised YOLOv5 to implement proximity detection, preventing unauthorised entry into restricted or hazardous areas by tracking workers and using virtual hazardous zones using ROI and bounding boxes
- This project uses real-time image recognition, it detects safety violations and generates instant alerts for corrective action, reducing the risk of accidents, and fostering a safer work environment.

### Breast Cancer Detection Using Deep Learning on Histopathological - [Python, Tensorflow, VGG16]

Bangalore, KA

Individual Project

Oct 2024 – Feb 2025

- Trained a deep learning model using VGG16 transfer learning on 7,900+ histopathological images to classify breast cancer as benign or malignant with high accuracy.
- Preprocessed large-scale medical image data, normalized pixel values, and handled class imbalance for robust real-world performance.

### SongRecognizer - [Librosa, Scipy]

Bangalore, KA

Individual Project

Mar 2024 – May 2024

- Developed Python script using the librosa library to replicate Roy van Rijn's song recognition algorithm.
- Extracted frequencies from given audio clips using a short term fourier transformation algorithm present in the scipy library.
- Built a database of audio fingerprints for a set of mp3 files and compared the fingerprints to identify the song

### Zen.AI

Bangalore, KA

Team Project

Mar 2025 – Present

- Collaborated with a team of 5 for the development of a comprehensive SaaS, assessment and placement preparation portal tailored for institutions and recruitment partners.
- Building an AI-proctored test taking platform useful for both colleges and companies for mock and real evaluations.
- Integrating an AI powered resume builder based on job descriptions with ATS compatibility.
- Contributed to integration of email system and development of dynamic feedback form for student-company evaluation.
- Developing an end-to-end solution with useful features such as: Email System, Calendar, Course Material, Discussions

## ACHIEVEMENTS AND CONTRIBUTIONS

- **Research Paper (ICICC 2025):** System and Method for Virtual Boundary Detection and Warning of Safety Zone Violations in Construction and Industrial Environments - **Paper ID: 1346**