

# Nisha Goswami

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## Work Experience

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**Reliance Jio Infocomm Ltd** [\[link\]](#)  
*Machine Learning Intern*

Mumbai, Maharashtra  
Jul 2025 – Oct 2025

- Designed and implemented a Python voice verification API microservice for the Samarth job portal using FastAPI and Resemblyzer to enroll and verify user identities.
- Engineered a multimedia processing pipeline utilizing Pydub, Librosa, and FFmpeg to extract audio from video files and calculate cosine similarity for secure authentication (accuracy upto 85%).
- Built an image analysis pipeline using PyTorch, OpenCV, and the Detectron2 framework to perform object detection and instance segmentation.
- Applied data augmentation techniques during training to improve model generalization and detection accuracy increased to 75% across varying lighting conditions and complex backgrounds.

## Education

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**Bhagwan Mahavir College of Engineering and Technology**  
*Bachelor of Technology in Computer Science and Engineering*

Surat, Gujarat  
2022 – 2026 [expected]

- **SGPA:** 8.52/10.00    **CGPA:** 8.19/10.00

## Technical Projects

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**Personal Portfolio Website**

[nishagoswami.com](https://nishagoswami.com)

*Astro, HTML5, CSS3, JavaScript, Tailwind CSS, Git*

- Designed and deployed a responsive personal portfolio website using Astro to showcase technical projects, skills, and professional experience.

**Drowsiness Detection Model**

[\[Github\]](#)

*Python, PyTorch, YOLOv5, OpenCV, NumPy, Matplotlib, LabelImg*

- Led a team to develop a YOLOv5-based driver drowsiness detection system using Python and PyTorch, achieving high-precision real-time eye state classification and robust dataset management.

## Skills

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**Programming & Languages:** Python, C++, HTML, CSS, JavaScript, SQL.

**Frameworks & Libraries:** Django, FastAPI, Flutter, PyTorch, OpenCV, NumPy, Matplotlib, RESTful APIs.

**Tools & Technologies:** Git, GitHub Actions, VS Code, Jupyter Notebook, Linux (Ubuntu), Windows.

**Core Domains:** Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, IoT.

**Soft Skills:** Effective Communication, Teamwork, Adaptability, Ownership, Strong Work Ethic.

**Spoken Languages:** English, Hindi, French (Elementary).

## Certifications

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- **SAP Code Unnati Program (Edunet Foundation):** [\[Link\]](#)  
Acquired skills in AI, Machine Learning, Deep Learning, Computer Vision, IoT, and SAP ABAP.

## Extra-Curricular Interests

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- Reading philosophy, Writing poetry, Cinema, Editing, Badminton.