

# Harshini Shivaratri

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As a fourth-year engineering student, I am seeking an opportunity to apply my academic knowledge, gain practical experience, and contribute to cutting-edge machine learning, artificial intelligence, data analysis, and programming projects in an innovative organization.

## WORK EXPERIENCE

### STUDENT Community

Jun 2025 - Present

Machine Learning Intern - Built a web-based AI system to auto-generate podcast videos and trailers by syncing multi-camera feeds with audio using face detection, gesture recognition, speaker diarization, and NLP-driven highlight extraction.

### Infosys Springboard

Nov 2024 - Jan 2025

Data Visualization Intern - Developed an interactive Power BI dashboard, "IndiaCityGDP", to analyze the GDP of Indian metro cities and integrated it with a Streamlit web app for easy data exploration.

## EDUCATION

Artificial Intelligence and Data Science • B V Raju Institute Of Technology • GPA: 9.00

Nov 2022 - Apr 2026

Intermediate In MPC • Sri Kakatiya Junior College, Nizamabad • GPA: 9.50

Jul 2020 - Mar 2022

## PROJECTS

### Automatic Speech Recognition for Telugu Language

Dec 2024 - May 2025

**Description :** Developed a web-based ASR system that converts spoken English to Telugu text and speech by integrating speech recognition, machine translation, and TTS, enabling real-time communication, transcription, dubbing, and language learning for Telugu users.

**Technologies:** Whisper (OpenAI), NLLB-200 (Meta AI), gTTS, FastAPI, NLP, HTML, JavaScript

### Lung Cancer Detection using CNN and VR

Feb 2024 - May 2024

**Description :** Developed a deep learning model using CNN to detect lung cancer from medical images. Integrated the detection system with Unity 3D to visualize anomalies in Virtual Reality, enabling immersive exploration of affected lung regions.

**Technologies :** CNN, TensorFlow, Unity 3D, C#

## SKILLS

- **Programming Languages:** Python, Java
- **Database Management:** Oracle MySQL
- **Web Development (Basics):** CSS, HTML, JavaScript
- **AI, DataScience:** Computer Vision, Deep learning models, Keras, NLP Techniques, Pandas, Tensorflow
- **Virtual Reality:** Unity 3D
- **Cloud platforms:** Amazon Web Services(AWS)

## CERTIFICATIONS

Certified in "Pragati-Path to Future Cohort 2" by Infosys Springboard

Certified in "The Joy of Computing Python" by NPTEL

Certified in "Database Programming with SQL" and "Java Programming" by Oracle

## PUBLICATIONS

Lung Cancer Detection using Convolutional Neural Network and Virtual Reality (IEEE)

<https://ieeexplore.ieee.org/document/10841699>

Jan 2025

## VOLUNTEERING & LEADERSHIP

General Secretary, InfinitiTech, BVRITN

## AWARDS & SCHOLARSHIPS

Academic Excellence Award (B V Raju Institute of Technology)

Apr 2024

Immerse Tech AR-VR Hackathon (JNTUH)

Nov 2023