

# VARSHINI SAMBATUR

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## Profile

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Driven and adaptable undergraduate student pursuing a Bachelor's degree in data science and artificial Intelligence (CGPA: 8.85). Strong foundation in data handling, analysis, and programming. Experienced in working with Python and databases through academic projects and internships, and eager to apply analytical and problem-solving skills in real-world environments.

## Work History

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<b>Data Science Intern, Megha AI</b> <ul style="list-style-type: none"><li>• Worked with structured inspection data and metadata to support analytics for a part traceability system.</li><li>• Designed and queried PostgreSQL databases for efficient data storage and retrieval.</li><li>• Built backend APIs to enable data access for dashboards and reporting.</li></ul>	06/2025 – 07/2025 Hyderabad , India
<b>Business Development Intern, Marcamor: Marketing And Consulting Firm</b> <ul style="list-style-type: none"><li>• Assisted team members with daily tasks and operational support.</li><li>• Worked as a Business Development Executive, supporting client outreach and lead generation.</li><li>• Collaborated with interns on group projects and presentations.</li></ul>	06/2024 – 07/2024 Hyderabad

## Education

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<b>Bachelor of science and technology in Data Science and Artificial Intelligence: Data Science and Artificial Intelligence, ICFAI UNIVERSITY - Hyderabad</b> Current CGPA of 8.85	08/2022 – Current
<b>Intermediate, NARAYANA JUNIOR COLLAGE - Hyderabad</b> 93.2 % in IPE exam 2022	05/2020 – 05/2022
<b>Schooling, HYDERABAD PUBLIC SCHOOL - Hyderabad</b> Received 83.4 % in ICSE board exam ( year 2020)	06/2011 – 05/2020

## Skills

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### Programming & Libraries

- Python, NumPy, OpenCV, TensorFlow, Keras
- SQL, PostgreSQL
- Java , JavaScript

### Computer Vision & AI

- Image Classification
- CNN Architectures
- Face Analysis (Age & Gender)
- Data Preprocessing & Augmentation
- Model Training & Evaluation

### Machine Learning & Deep Learning

- Supervised Learning
- Deep Neural Networks
- NLP (Academic Exposure)
- Speech Processing (Academic Exposure)

### Tools & Platforms

- Streamlit
- AWS (Lambda, API Gateway, S3 – Academic/Project Exposure)

## Projects

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### Facial age and gender predictions using CNN

Developed a CNN-based deep learning model using TensorFlow and Keras to predict age and gender from facial images. Trained and evaluated the model on the UTKFace dataset (20,000+ images) with image preprocessing and normalization. Implemented a Streamlit-based interface to execute the trained model and visualize prediction outputs locally, applying core computer vision techniques relevant to image classification and facial analysis tasks.

### Circular Object Detection using Hough Circle Transform

Developed a computer vision system using Python and OpenCV to detect circular objects by applying image preprocessing techniques such as grayscale conversion and noise reduction. The project involved parameter tuning to improve detection accuracy and real-time visualization of results.

### An IoT Project on Voice based light control,

*A simple IoT project built with the help of ESP8266 board and ARDUINO IDE.*

## Certifications

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| • Data processing and Visualization | • Acquiring Data                         | • Exploratory Data Analysis on future skills prime |
| • Intro to Programming on kaggle    | • Microsoft Azure AI 900 on Microsoft bu |  |