

Sumant Bhange

CSE-AI Engineer

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EDUCATION

G. H. Raisoni College of Engineering and Management

Bachelor of Technology in Computer Science and Engineering (Artificial Intelligence)

Pune, India

July. 2021 – May 2025

(CGPA: 8.27/10)

- **Related coursework:** Computer Vision, Deep Learning, Machine Learning Algorithms , Cloud Computing, Database Management Systems, Operating Systems, Data Structures & Algorithms, Computer Networks, Data Warehousing and Mining, Object-Oriented Programming, Software Engineering and Project Management
- **Extra Curriculars:**
 - AI Coding Club Design Team Head *Jan. 2021 – Present*
 - Peer Counciller *Jan. 2021 – Present*

SKILLS

- **Technical Skills :-** Python, Javascript, C++, C, SQL, Kotlin, Java, HTML, CSS.
- **Languages:** English, Hindi, Marathi
- **Frameworks and Libraries:** OpenCV, TensorFlow, Matplotlib, Pandas, Numpy, Scikit, Ultralytics, Pytorch, Cuda, Optical Character Recognition(OCR), Machine Learning.
- **Other:** Git, GitHub, Canva, Adobe Premiere Pro, VS Code, Conda, Linux, jupyter notebook, Google collab, Image processing, Tablue, PowerBI, Artificial neural network, MS Office, .
- **Soft Skills :-** Leadership, communication, problem solving, time management, discipline, self-confident, Creative and Innovative, Active Listening, Self Motivation, Adaptability .

PROJECTS

1. Silo Bulker Parking System (Based on YOLOv8)

- Technologies Used: Python, YOLOv8, OpenCV
- Description: Developed a Silo Bulker Parking System to automate the process of parking silo bulkers, large vehicles used for transporting bulk materials.
- Achievements: Reduced the parking time by 30% and improved the space utilization by 20%.

3. Car Image Classifier (Using Convolutional Neural Networks)

- Technologies Used: Python, TensorFlow, Keras, OpenCV
- Description: Developed a car image classifier to accurately classify different types of cars from images. The application has potential uses in automated surveillance, traffic management, and autonomous driving.
- Achievements: Achieved a classification accuracy of over 90% on the test dataset.

5. Number Plate Detection (Using EasyOCR)

- Technologies Used: Python, EasyOCR, OpenCV
- Description: Developed a system to detect and recognize vehicle number plates from images. The application has potential uses in automated surveillance and traffic management.
- Achievements: Achieved high accuracy in number plate detection and recognition.

2. Hand Sign Recognition (Using YOLOv8)

- Technologies Used: Python, YOLOv8, OpenCV
- Description: Developed a Hand Sign Recognition system to identify and classify different hand signs from real-time video feeds. The application has potential uses in sign language interpretation and gesture-based control systems.
- Achievements: Successfully classified multiple hand signs with high accuracy.

4. Hindi-English Translation (Using NLP)

- Technologies Used: Python, Natural Language Processing (NLP)
- Description: Developed a Hindi-English Translation system using NLP techniques. The system can translate Hindi text into English, which has applications in automated translation services and multilingual communication platforms.
- Achievements: Achieved high accuracy in translating Hindi text to English.

6. Snake Game (Using Python)

- Technologies Used: Python
- Description: Developed a classic Snake Game using Python. The game involves controlling a snake to consume food while avoiding collision with the game boundary and the snake's own body.
- Achievements: Successfully developed a fully functional and interactive game.

WORK EXPERIENCE

Software Developer (2023/01 - 2023/04)

- Documented workflows and knowledge for new hires.
- Revised and updated code bases for cost reduction and functionality improvement.
- Corrected, modified, and upgraded software for performance enhancement.

CERTIFICATION

- **Python** :- Basic Concepts, Strings, Variables, Control Flow, Lists, Functions.
- **Python For data Science** :- Math Operations with NumPy, Data Manipulation with Pandas, Visualization with Matplotlib
- **HTML** :- HTML Basics, HTML5.