

# Om Kuhikar

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## EDUCATION

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**Symbiosis Institute of Technology**  
*Bachelor of Technology in Computer Science*

Nagpur  
2022 - 2025

**Dharampeth Polytechnic**  
*Diploma in Computer Technology*

Nagpur  
2019 - 2022

## TECHNICAL SKILLS

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**Programming Languages:** Python, C/C++, SQL

**Web Technologies:** React, Node.js, Express.js, HTML, CSS, Javascript

**Data Science & Analytics:** NumPy, Pandas, Scikit-learn, Streamlit, Seaborn, Power BI

**Concepts:** Data Structures, Data Visualization

## CERTIFICATIONS

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- Machine Learning and Deep Learning A-Z 2024 (Udemy).
- AWS Academy Cloud Foundations (2024).

## PROJECTS

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### Python

*Voice Assistant - Nova*

- Design and develop a voice activated virtual assistant using python integrating speech recognition, pytsxs3, gTTS, and pygame for interactive voice commands.
- Integrated OpenAI's GPT API for natural language processing, enabling the assistant to understand and respond intelligently to user queries.
- Implemented features to open websites, fetch news, and play music, with optimized API calls for faster and more efficient performance.

### Chatbot

*Chatbot Development using ChatGPT API on React*

- Developed a chatbot using ChatGPT API and Javascript via RapidAPI.
- Designed a responsive chat interface with real-time messaging.
- Optimized API calls for efficiency to reduce latency and enhancing user experience.

## RESEARCH WORK

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### Image Processing

*Analysis Of Object Identification and Classification using YOLO and RCNN*

- YOLO (You Only Look Once): Real-time object detection with high FPS and simplicity.
- RCNN(Region-based Convolutional Neural Network): Accurate but slower object detection with detailed region proposals.
- CNN(Convolutional Neural Network): Fundamental in deep learning for image processing and feature extraction.

### Machine Learning

*Machine Learning-based Music Recommendation System from Spotify*

- Develop a Music Recommendation System for personalized music suggestions using machine learning with Spotify data.
- Implemented collaborative and content-based filtering technique to enhance the accuracy