

ROHAN CHOPADE

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Education

KIT's College Of Engineering

B.tech in Computer Science (Data Science)

- Cumulative GPA : **9.2/10.0** (Till 6th Sem)

Kolhapur, Maharashtra

December 2021 – Present

Technical Skills

- Languages & Frameworks:** C, Python, MySQL, Flask, NumPy, Pandas, Matplotlib, Seaborn, Scikit-learn, Git, GitHub, PowerBI, Robotic Process Automation (RPA).
- Machine Learning & Deep Learning:** Regression, Classification, Clustering, Natural Language Processing (NLP), Neural Networks, Keras, TensorFlow.

Projects

AI-Powered Retail Assistant for T-Shirt Sales | Source Code

| *Generative AI*

- Built a question-answer system for a t-shirt selling store using a SQL Database chain in **Langchain**.
- Utilized **Google Palm LLM** model for natural language understanding, **Hugging Face** for embeddings, and **Streamlit** for the user interface.

Reddit Sentiment Analysis Using AWS Services | Source Code

| *Sentiment Analysis*

- Designed a real-time sentiment analysis pipeline for Reddit comments using **AWS services** (Lambda, Kinesis Firehose, S3, Glue, Comprehend, Athena, CloudWatch) and **Power BI** for visualization, achieving 70% accuracy.

Automatic Number Plate Recognition System | Source Code

| *Research Work*

- Developed an ANPR system using **YOLOv8** for vehicle detection and license plate localization with 98.6% accuracy, and employed **SORT** for tracking and ID assignment.
- Utilized **ResNet-50** for character recognition (97.81% accuracy) and **MySQL** database for data storage.

Walmart Sales Forecasting | Source Code

| *Time Series Analysis*

- Implemented Time Series Forecasting using **SMA**, **EMA**, **Holt-Winters**, **ARIMA**, **SARIMA**, and **Prophet**.
- Conducted EDA to uncover dataset patterns and achieved: **ARIMA** (MAPE: 6.15, MdAPE: 4.72), **SARIMA** (MAPE: 4.96, MdAPE: 3.55), **Prophet** (MAPE: 3.52, MdAPE: 2.66).

Work Experience

Data Science Intern

June 2024 - August 2024

Celebal Technologies

| *Remote*

- Gained hands-on experience with real-world data analysis and machine learning projects.
- Built and evaluated machine learning models for various business problems.

Industrial Training Program

May 2024 - August 2024

Intel Unnati 2024

| *Remote*

- Worked on an Automatic Number Plate Recognition (ANPR) system tailored for a college campus.
- Formulated and implemented solutions to address the problem statement provided by Intel, focusing on practical applications of computer vision, machine learning, and deep learning.

Publications

R. Chopade et al., "Automatic Number Plate Recognition: A Deep Dive into YOLOv8 and ResNet-50 Integration," 2024 International Conference on Integrated Circuits and Communication Systems (ICICACS), Raichur, India, 2024, pp. 1-8, doi: 10.1109/ICICACS60521.2024.10498318.

|  Paper Link

Achievements

- Best Paper Presentation Award**, 2024 IEEE 2nd International Conference on Integrated Circuits and Communication Systems (ICICACS-2024).
- Secured **1st place** for **three consecutive semesters** in the Project-Based Learning Competitions organized by **MAYURA AICTE IDEA LAB** and **KIT's College of Engineering (Autonomous) Kolhapur**.

Certifications

- AI & ML Workshop** – Innovians Technologies | *February, 2023*
- Introduction to Cyber Security** – Cisco Networking Academy | *November, 2022*