

SOHAM MANGORE

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EDUCATION

KIT's College of Engineering, Kolhapur

Dec 2023 – June 2025

B. Tech in Computer Science (Data Science)

CGPA:8.0

- Published a research paper titled "[Automatic Number Plate Recognition: A Deep Dive into YOLOv8 and ResNet-50 Integration](#)"
- Won 1st prize in Project Based Learning for 3 consecutive semesters.
- Participated in KIT Avinya - Hackathon and secured a position in Top 20.

Chhatrapati Shahu Vidyalaya and Junior College, Kolhapur

Dec 2021

Higher Secondary Education

Percentage:86 %

St. Xavier's High School, Kolhapur

March 2019

SSC

Percentage:81 %

LANGUAGES AND SKILLS

Languages and Frameworks: Python (*Scikit-Learn, Langchain, NLTK, Beautiful Soup, PRAW, Tensorflow, OpenCV, Ultralytics, Numpy, Pandas, Matplotlib, Seaborn*), C, C++, HTML, CSS, JavaScript, Bootstrap, Langchain, Hugging Face.

Skills: UI Path, SQL, Flask, FastAPI, AWS, Microsoft PowerBi, Figma, Adobe Illustrator, Microsoft Office.

EXPERIENCE

Acmegrade

September 2023

Cyber Security Training & Internship (Online)

- Learnt about Fundamentals of Cyber Security, Ethical Hacking and related tools.
- Also worked on 3 industry standard projects: 1) Reconnaissance. 2) Network Scanning using Nmap. 3) Hacking into SQL Database using sqlmap and NSE.

PROJECTS

1) Automatic Number Plate Recognition System:

Tech Stack: *TensorFlow, OpenCV, Easy-OCR, MYSQL, Nodejs, HTML, CSS, Javascript.*

- Automatic Number Plate Recognition (ANPR) is an image processing technology which captures the number-plate of vehicles. The objective is to design a system which will be used for authorization as well as for Analysis purpose.

2) Document Q&A Chatbots using Langchain:

Tech Stack: *Langchain, Llama3, Gemma, Mixtral, Groq API, Open AI, Streamlit, FAISS.*

- Developed an AI-powered document question-and-answer system using Langchain, incorporating multiple models like Llama3, Gemma, Mixtral, and Groq API. Implemented a retrieval pipeline with FAISS and Google Generative AI Embeddings to efficiently extract and present contextually relevant answers from PDF documents. Built a user-friendly interface with Streamlit for real-time querying and exploration of document content.

3) Walmart time-Series Analysis

Tech Stack: *ARIMA, SARIMA, FB PROPHET*

- Conducted comprehensive Walmart time-series analysis, leveraging ARIMA, SARIMA, and FB Prophet models for accurate forecasting, and implemented an interactive PowerBi dashboard for insightful data visualization.
- Applied advanced data science techniques, including feature engineering and exploratory data analysis using Python tools, to extract meaningful insights from Kaggle-sourced Walmart time series data, contributing to enhanced decision-making in retail analytics.

4) Sentiment Analysis using Amazon Web Services

Tech Stack: *PRAW, AWS CloudWatch, Lambda, Kinesis Firehose, Comprehend, S3, Athena, Glue Crawler, Microsoft PowerBi*

- Used PRAW (Python Reddit API Wrapper) to retrieve and preprocess Reddit data, ensuring comprehensive data collection for sentiment analysis.
- Built an end-to-end data pipeline on AWS using services such as Kinesis Firehose for data ingestion, Lambda for real-time processing, and AWS Comprehend for sentiment analysis, enabling near real-time insights into public sentiment.
- Implemented a scalable data storage and querying solution on AWS, utilizing S3 for data storage, Athena for ad-hoc querying, and Glue Crawler for automated data cataloging and ETL processes, facilitating efficient data analysis and reporting.

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](https://doi.org/10.1109/ICICACS60521.2024.10498318).

COURSES AND CERTIFICATIONS

- Technex'23 IIT Varanasi : **Machine Learning & Artificial Intelligence- Hands-on Tutorial**. (FEB'23)
- IIT Bombay: **Data Analytics**. (DEC'22)
- IBM : **Databases and SQL for Data Science with Python**.
- IBM : **Introduction to Data Engineering**.
- IBM : **Python Project for Data Engineering**.
- UDEMY : **Complete Machine Learning, NLP Bootcamp MLOPS & Deployment**.
- Ansh Mehra : **Basics of Figma Series**.

EXTRA-CURRICULARS

1. **Treasurer - Rotaract Club of KIT Sunshine (Year 23-24)**
 - Managed the financial operations of the Rotaract Club, overseeing all monetary transactions and accounts, ensuring accurate and transparent financial reporting.
 - Spearheaded the development and maintenance of the club's budget, allocating resources efficiently to support various charitable initiatives, fundraisers, and community service projects.
 - Arranged and Participated in Social Events like 'Swachatta Sankul': Cleanliness Drive, Visit to old age home, Menstrual health awareness & Sanitary Pad donation, etc
 - Also arranged fun events like Day-out, Football Tournaments, E-Sports Tournaments ,etc
2. **Executive Media and PR Head – WalkWithWorld**
 - Spearheaded media and public relations strategies for events like Abhigyan and KITMUN, enhancing visibility and engagement across multiple platforms, resulting in a 20% increase in event participation.
 - Created and managed communication plans, ran social media campaigns, and worked with media outlets to promote WWW's events, helping to build a stronger brand image.
3. **Organising Committee - 'ABHIGYAN 2023'**
 - Led the design of ID cards, standees, Certificates, and invitation letters, contributing significantly to the overall aesthetic and promotional success of Abhigyan 2023.
 - Gained valuable skills in project management, teamwork, and efficient communication while collaborating with seniors and the design team. Developed expertise in transforming ideas into visually impactful designs, meeting Abhigyan's high standards.
4. **Organising Committee - 'KITMUN 2024'**
 - Designed and created graphics, including Certificates, Grid posts for Instagram, IDs, Placards, and other social media posts, contributing to the overall branding and promotion of KITMUN.
 - Played a crucial role in overseeing the International Press (IP) committee during the event, ensuring smooth operations and providing support to participants.