SOHAM MANGORE

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EDUCATION

KIT's College of Engineering, Kolhapur 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 May 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.
Tools and Technologies: 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: *Yolov8, ResNet-50, MYSQL, Nodejs, HTML, CSS, Javascript.*

- Developed an image processing system to capture vehicle number plates for authorization and analysis purposes .

2) Document Q&A Chatbots using Langchain:
Tech Stack: *Langchain, Llama3, Gemma, Mixtral, Groq API, Open AI, Streamlit, FAISS.*

- Built an AI-powered Q&A system using Langchain, multiple models, and FAISS for efficient document querying, with a user-friendly Streamlit interface.

3) Walmart time-Series Analysis:
Tech Stack: *ARIMA, SARIMA, FB PROPHET*

- Forecasted Walmart sales using time-series models and visualized insights with an interactive PowerBI dashboard. Performed feature engineering and EDA to derive actionable insights from Kaggle data.

4) Sentiment Analysis using Amazon Web Services:
Tech Stack: *PRAW, AWS (CloudWatch, Lambda, Kinesis Firehose, Comprehend, S3, Athena, Glue Crawler), PowerBI*

- Developed an end-to-end pipeline on AWS for Reddit sentiment analysis, leveraging real-time processing, scalable storage, and PowerBI for reporting.

5) Diwali Sales Insights: EDA and Interactive Dashboard:
Tech Stack : *Python, Pandas, NumPy, Seaborn, Matplotlib, Jupyter Notebook, PowerBI.*

- Performed Exploratory Data Analysis on Diwali sales data and created an interactive dashboard to visualize trends based on occupation, product category, and demographics.

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.

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 and budget of the Rotaract Club, arranged charitable initiatives such as the 'Swachatta Sankul' Cleanliness Drive and Menstrual Health Awareness campaign. Additionally, organized and participated in social and recreational events like Day-out, Football Tournaments, and E-Sports Tournaments.
2. **Executive Media and PR Head – WalkWithWorld**
   - Led a team of two junior graphic designers and worked closely with the videography team to create branding materials and content for ABHIGYAN and KITMUN. I reviewed designs, and ensured they aligned with the event's branding.
3. **Organising Committee - 'ABHIGYAN 2023 – *An International Student Conference*'**
   - Led the design of ID cards, standees, Certificates, and invitation letters, contributing significantly to the overall aesthetic and promotional success of Abhigyan 2023.
4. **Organising Committee - 'KITMUN 2024 – *Model United Nations*'**
   - 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. Additionally, I was responsible for managing the International Press (IP) committee during the event.