PRATHMESH KATHAR

Chh.Sambhajinagar,Maharashtra | +91 9766775382 | katharprathmesh13@gmail.com

linkedin.com/in/prathmeshkathar-3b5125229/ | https://github.com/PrathmeshKathar

https://prathmeshkathar.github.io/Prathmesh_Kathar_portfolio/

SUMMARY

I was recognized among the Top 95 teams across Asia in the AI for Impact APAC Hackathon powered by Google Cloud AI, became a finalist in the Coding Ninjas UI/UX Hackathon, and was shortlisted for the SIH Internal Hackathon. I'm a Computer Science student with practical experience in Generative AI, and Machine Learning and I have strong skills in Python, SQL, and data visualization.

SKILLS

Languages & Libraries: C, C++, Java, Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn), SQL, Statistics

Deep Learning & ML: PyTorch, TensorFlow,LLMs (OpenAI, Langchain), Regression, Classification, NLP, Prompt Engineering

MLOps Tools: Streamlit, Git, Model Deployment, Vector Databases, Semantic Search

Data Visualization: Tableau, Power BI, Figma

Databases: MySQL, PostgreSQL, SQLite

Soft Skills: Problem Solving, Communication, Team Collaboration, Adaptability

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EDUCATION

B.Tech in Computer Science
Deogiri Institute of Engineering and Management Studies, Aurangabad — Expected Graduation: January 2026
CGPA (Second Year): 7.4
Higher Secondary Education (12th Grade)
Vasantrao Naik Mahavidyalaya, Aurangabad — Completed: May 2022
Score: 69.83%
Secondary School Education (10th Grade)
Sant Meera School, Aurangabad — Completed: 2020
Score: 79.60%

CERTIFICATIONS

• Databases and SQL for Data Science with Python – **IBM**
• Supervised Machine Learning: Regression and Classification - **DeepLearning.ai**
• Unsupervised Learning, Recommenders, Reinforcement Learning - **DeepLearning.ai**
• Getting Started with Data – **IBM**
• Fundamentals of Visualization with Tableau - **UCDAVIS**

PROJECTS

WhatsApp Chat Analyzer
- Created a tool that turns exported WhatsApp chats into **easy-to-understand insights** using Python, Pandas, Matplotlib, Seaborn, and Streamlit.
- Processed raw chat data to clearly separate **messages, users, and timestamps**
- Built **interactive charts and visuals** to show message frequency, user activity, word usage, and emojis.
- Built **time-series and heatmap analytics** to highlight daily, weekly, and hourly activity patterns.
- Added **time-based analysis** like daily, weekly, and hourly activity patterns with heatmaps and trend graphs.

Medical Cost Predictor
- Built a model to **predict medical insurance charges** using patient details (age, BMI, smoker status, region, etc.).
- Applied a **Random Forest Regressor** with cross-validation for accurate predictions.
- Preprocessed data with **scaling and one-hot encoding** for better model performance.
- Tech Stack: Python, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn.

Equity Research Assistant using LLMs
- Developed an **AI-powered research assistant** using **LangChain, Google Gemini, and Streamlit**..
- Implemented **semantic search and vector databases** to fetch context-aware financial insights.
- Designed **LLM chains** to summarize and rank key points from financial reports and news.
- Built **real-time data pipelines** to keep market data and insights continuously updated.
- Handled backend development including **prompt engineering**, **query routing**, and API integration

Walmart Sales Data Analysis
- Analyzed **Walmart sales data** with SQL and Python for cleaning, transformation, and insight generation.
- Built **predictive models** to forecast sales trends and guide inventory decisions.
- Designed **interactive Tableau dashboards** to visualize trends and support decision-making.
- Automated frequent **SQL queries** to improve reporting efficiency and business responsiveness.

ACHIEVEMENTS

• Recognized among the Top 95 teams across Asia in the AI for Impact APAC Hackathon powered by Google Cloud AI.
• Finalist in the Coding Ninjas UI/UX Hackathon.
• Finalist in the Smart India Hackathon (SIH) Internal Hackathon.

VOLUNTEER

Volunteer – National Service Scheme (NSS)
Deogiri Institute of Engineering and Management Studies, Aurangabad | October 2023 – Present
Organized events and awareness campaigns, developing strong leadership and communication skills.
Assisted in logistics, planning, and community engagement for public service initiatives.

HOBBIES & INTERESTS

Singing, Digital Art & UI Design, Photography, Chess, Following Geopolitical News

LANGUAGES

English, Hindi, Marathi