PRATHMESH KATHAR

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SUMMARY

Recognized among the Top 95 across Asia in the AI for Impact APAC Hackathon powered by Google Cloud AI, finalist in the Coding Ninjas UI/UX Hackathon, and shortlisted for the SIH Internal Hackathon.

Award-winning Computer Science student with hands-on experience in NLP, Generative AI, and Machine Learning. Built an OpenAI-powered LangChain equity research assistant, with strong skills in Python, SQL, and data visualization.

SKILLS

Languages & Libraries: C, C++, Java, Python (Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn), SQL, HTML/CSS
Deep Learning & ML: PyTorch, TensorFlow, LLMs (OpenAI, Langchain), Regression, Classification, NLP
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

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**

• Langchain and LLM Application Development - (Self-paced)

PROJECTS

Equity Research Assistant using LLMs
- Built an AI-powered equity research assistant using **Langchain**, **Google Gemini**, and **Streamlit** to help analysts extract insights from financial news and reports.
- Integrated **semantic search** and **vector databases** for precise, context-aware information retrieval.
- Designed **LLM chains** to summarize and rank insights from multiple documents, reducing manual research effort.
- Developed real-time data ingestion pipelines to keep market data and news up to date.
- Handled backend development including **prompt engineering**, **query routing**, and API integration.

Walmart Sales Data Analysis
- Analyzed Walmart's sales data using **SQL** and **Python** for cleaning, transformation, and extracting key insights.
- Built **predictive models** to forecast future sales trends and guide inventory planning.
- Created interactive **Tableau dashboards** to visualize trends and support strategic decisions.

- Automated frequent **SQL queries** to improve reporting efficiency and business responsiveness.

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.

ACTIVITIES

• Participated in technical hackathons focused on AI and productivity tools.
• Explored LLaMA and Falcon open-source LLMs for experimentation and self-learning.
• Contributed to GitHub projects involving GenAI and smart task management.

HOBBIES & INTERESTS

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

LANGUAGES

English, **Hindi**, **Marathi**