

SHEKHAR KATKAR

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ABOUT ME

Python Full Stack Developer with a strong foundation in web development, data analysis, and machine learning. Proficient in building data-driven applications using technologies like **Python, Flask, JavaScript, HTML, CSS, SQL**, and tools like **GitHub, LangChain, and RAG**. Experienced in API development, database management, and AI-powered solutions such as Retrieval-Augmented Generation. Skilled in creating and evaluating machine learning models using Azure ML Studio. Interested in deepening knowledge in areas such as cloud deployment and infrastructure to deliver end-to-end solutions. Passionate about building seamless user experiences and translating data into actionable insights.

EDUCATION

Bachelor of Technology (B.Tech), Karmaveer Bhaurao Patil College of Engineering, Satara. 2018 - 2022

- Member of Training and Placement Cell
- Technical Secretary of Student's Association

SKILLS

Technical Skills	Python, MySQL, Machine Learning, Flask, JavaScript, HTML, CSS, Langchain, Transformers, NLP, RAG, CV, Deep Learning, YOLO-V8
Tools	VS Code, GitHub, Postman, Azure ML, PowerBI
Soft Skills	Teamwork, Leadership, Communication, Problem Solving

EXPERIENCE

Software Engineer / Analyst A-4 Capgemini	Aug 2023 - Present <i>Mumbai, India</i>
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PROJECTS

Parts Discovery Tool - Caterpillar (Capgemini)

Role: Python Full Stack Developer

Technologies: Python, Flask, JS, HTML, CSS, SQL, RAG, Lang-chain

- Developed and maintained web applications using Flask for backend and JavaScript for frontend.
- Designed and optimized SQL database queries for efficient data retrieval.
- Implemented responsive UI using HTML, CSS, and JavaScript.
- Integrated APIs and managed server-side logic for seamless functionality.
- Contributed to RAG-based intelligent document processing for enhanced content retrieval.
- Worked closely with team members to improve application performance and user experience.

Face Recognition Attendance Management System - GCCA (Capgemini)

Role: Python Full Stack Developer

Technologies: Python, Flask, JS, HTML, CSS, SQL, FaceNet, Deep Learning, Computer vision

- Preprocessed existing face image dataset by applying consistent formatting and systematic renaming for reliable identification.
- Leveraged a pre-trained FaceNet model (128D) to compute facial embeddings for all user images.
- Used cosine similarity to compare facial embeddings, eliminating the need for traditional model training and inference.
- Developed an interactive user interface with real-time updates using Flask and JavaScript.
- Utilized MySQL to store attendance records, with seamless integration via MySQL Connector.

CERTIFICATIONS

- Microsoft Azure Data Scientist Associate (DP-100)
- Microsoft Azure AI Fundamentals (AI-900)
- Python for Data Science, AI and Development (Coursera)
- Data visualization with Power BI (Coursera)
- Data Science using Python (Coursera)
- Getting Started with Git and GitHub (Coursera)

ACHIEVEMENTS / HIGHLIGHTS

- Cut part search time from 20 to 7 seconds by deferring API calls and implementing caching.
- Built a face recognition-based attendance system used by 700+ active users at GCCA.

STRENGTHS

- Proficient in Python for backend development, data analysis, and ML modeling.
- Experienced in building REST API and web apps using Flask.
- Skilled in JavaScript, HTML, and CSS for responsive UI design.
- Strong command of MySQL for schema design and querying relational databases.
- Strong understanding of ML and NLP concepts including RAG and Transformer models.
- Proficient in Azure ML Studio for building and deploying ML models.
- Skilled in Power BI for dashboard creation and data-driven insights.

LANGUAGES

- English – Professional proficiency
- Hindi – Native proficiency
- Marathi – Native proficiency

INTERESTS / HOBBIES

- Exploring new places and cultures through travel.
- Enjoy long bike rides to unwind and spark creativity.
- Continuously learning emerging technologies through online platforms and tutorials.