Sahil Mandavkar

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Education

Vishwakarma Institute of Information Technology, Pune   **2022 - 2025**
B.Tech. in Artificial Intelligence and Data Science (CGPA 9.5)   *Pune, Maharashtra*

MIT Polytechnic Pune   **2019 - 2022**
Diploma in Computer Science (Percentage: 91%)   *Pune, Maharashtra*

Experience

Valethi Technologies LLP   **April 2021 – June 2021**
IT Operations Intern   *Remote Internship*

- Streamlined IT operations for Weber Grill Manufacturer, resolving client inquiries through Zendesk and remote desktop software, achieving a 50% reduction in ticket resolution time.
- Managed an average of 40 email inquiries daily, resolving 80% within the first response, leading to a 95% customer satisfaction rate.

CodeChef VIIT Chapter Club   **October 2023**
Technical Writing Head

- Led the organization and execution of hackathons like 'Code Craft', an intra-college coding contest, fostering participation from students across all departments.
- Developed and reviewed coding problems for hackathons, authored codes for technical blog posts, and curated engaging coding content for social media, enhancing the club's online presence and fostering a collaborative coding community.

Projects

Rosa an AI Shopping Assistant | *Gen AI, Prompt Engineering, Agents and Function Calling*   **July 2024**

- Developed an AI-driven e-commerce assistant leveraging Gemini-1.5-Flash for natural language processing.
- Built using agent and function calling methods, the e-commerce assistant employs real-time web search capabilities to dynamically retrieve and present information from various websites based on user queries.
- Implemented FastAPI to facilitate rapid communication between the front-end and the AI model via API, achieving an average response time of 0.5 seconds.

Similar Document Template Matching Algorithm | *Transformers, Hugging Face*   **April 2024**

- Developed a multi-document classification system enabling joint visual and textual analysis with LayoutLMv2.
- Fine-tuned a LayoutLMv2 transformer model, achieving a 19% increase in document classification accuracy (from 65% to 84%) on the RVL-CDIP benchmark dataset.
- Potential applications include streamlining document processing in legal discovery, automating medical record classification, and enhancing document management systems.

Movie Recommender System with Collaborative Filtering | *Pandas, Regex, IBCF*   **March 2024**

- Implemented a user-based collaborative filtering approach, identifying similar users to recommend movies they enjoyed.
- Developed a Movie Recommender System that combines collaborative filtering with a TF-IDF-powered movie search engine.
- Improved recommendation accuracy by 30% compared to a basic genre-based recommendation system.

Automated Backup Solution in AWS and CI/CD pipeline | *Terraform, AWS, GitLab*   **December 2023**

- Critical website data lacked a reliable backup solution, posing a risk of data loss and jeopardizing business continuity. Previous manual backups were time-consuming, requiring 4 hours per week, and prone to errors.
- Engineered an automated backup system that reduced backup time by 90% to under 30 minutes per week. Integrated with a GitLab CI/CD pipeline to seamlessly deploy and test the system on AWS S3 Service.

Technical Skills

Languages: C++, Python, SQL, Mojo, Gen AI/LLMs, DSA, ML/DL, NLP, Data Mining, DevOps.
Developer Tools: GitHub, GitLab, Jupyter Lab, Hugging Face, AWS, Pinecone Vector DB.
Technologies/Frameworks: Tensorflow, Pandas, Numpy, PyTorch, Open-CV, FastAPI, LangChain.