OM PATIL

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EDUCATION

Pune Institute of Computer Technology   **June 2021 - June 2025**
Bachelor of Engineering in Information Technology   CGPA: 8.88

Akshara International School   **June 2020 - June 2021**
CBSE 12th, Senior School Examination   Percentage: 96.4%

Akshara International School   **June 2018 - June 2019**
CBSE 10th, Secondary School Examination   Percentage: 93.4%

EXPERIENCE

Persistent Systems | Generative AI Mentorship   **May 2024 - July 2024**
- Collaborated with industry experts to explore applications of generative AI models, specifically utilizing Google Gemini, CrewAI and LangChain frameworks.
- Engineered and deployed an AI chatbot that interacts with documents, fine-tuned on their content and aware of chat history, using the Google Generative API, LangChain, and FAISS vector database for improved performance.
- Implemented fine-tuning of PEFT models, notably LoRA and QLoRA, and evaluated model performance using the RAGAS framework.
- Orchestrated workflows for a blog website with multi-agent systems using the CrewAI framework to streamline operations from idea generation to publishing.
- Technologies: Python, Google Generative AI, Langchain, HuggingFace, CrewAI.

PICT INC Web Team | Web Developer Internship   **February 2024 - April 2024**
- Collaborated with a team to develop an Event Management System using CI/CD practices, enabling incremental enhancements based on dynamic management needs and increasing operational efficiency from one hour to mere minutes.
- Developed a RESTful API integrated with the frontend using the MERN stack for features such as judge allocations, an admin dashboard, and project evaluation. Rigorously tested the API to prevent production errors and ensured a high-quality codebase with each update.
- Thrived in a fast-paced environment while managing the website as a team for PICT's flagship event.
- Technologies: MERN Stack (MySQL, Express, React, Node.js), REST APIs, Tailwind.

PROJECTS

SHIELD Password Manager   **Live-Website**
- Engineered a secure password manager with AES-GCM-256 encryption for storing passwords, notes, and personal data, with payment integration for premium services.
- Designed the end-to-end encrypted, zero-knowledge security architecture from scratch, refining it based on insights from white papers of leading commercial password managers like 1Password and LastPass.
- Utilized Redux for global state management and RTK Query for efficient API handling, caching, and performance optimization, resulting in significant app responsiveness improvements.
- Integrated the PhonePe payment gateway to facilitate premium feature access, conducting extensive testing to optimize transaction reliability and enhance user satisfaction.
- Technologies: MERN, AES-GCM-256, PBKDF2, SHA-256, Web Crypto API, Chrome Extension, PhonePe API.

SKYNET Chat Application   **GitHub**
- Developed a real-time chat application using Flutter, enabling seamless messaging and user interactions across multiple platforms, on both Android and iOS.
- Integrated Firebase for robust backend support, implementing secure user authentication, real-time data synchronization with Firestore, and cloud storage for managing images and files.
- Enhanced user engagement by incorporating the Gemini API, allowing users to interact with both text and images for a richer communication experience.
- Technologies: Flutter, Dart, Firebase, Firestore, Gemini API.

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript
Frontend: React, HTML5, CSS3, JavaScript, Bootstrap, Tailwind CSS
Backend: Node.js, Express.js, RESTful APIs
Database: MongoDB, MySQL
Deployment: AWS
Developer Tools: VS Code, Wireshark, Postman, MongoDB Compass
Relevant Coursework: DSA, OS, OOP, CNS, DBMS, AIML, Web Development, Cloud Computing

CERTIFICATIONS

The Web Developer Bootcamp 2024 | Udemy   Certificate
Responsive Web Design | freeCodeCamp   Certificate
LangChain for LLM Application Development | DeepLearning.AI   Certificate