

OM PATIL

+91 9049999499 patilom001@gmail.com [LinkedIn](#) [GitHub](#)

EDUCATION

Pune Institute of Computer Technology	2021 - 2025
Bachelor of Engineering in Information Technology	SGPA: 8.88
Akshara International School	2021
CBSE 12th, Senior School Examination	Percentage: 96.4%
Akshara International School	2019
CBSE 10th, Secondary School Examination	Percentage: 93.4%

EXPERIENCE

PERSISTENT SYSTEMS

Generative AI Mentorship

Pune
May 2024 – July 2024

- Developed and deployed a RAG chatbot to interact with and summarize documents, significantly improving accessibility and decision-making.
- Developed an innovative application using multi-agent systems to customize resumes based on job descriptions, streamlining the job application process for users.
- Fine-tuned models using Parameter-Efficient Fine-Tuning (PEFT) techniques, including LoRA (Low-Rank Adaptation) and QLoRA (Quantized LoRA), to enhance model performance and efficiency.
- Implemented and assessed various evaluation metrics to ensure the accuracy and reliability of the models.
- Python, Google Generative AI, Langchain, HuggingFace, CrewAI.

PICT InC

Web Developer Intern

Pune
Feb 2024 – April 2024

- Collaborated with a team to develop a comprehensive Event Management System using the MERN stack, reducing processing time from one day to mere minutes.
- Contributed to enhancing the functionality of Admin and Judge Panels by integrating advanced features, including real-time statistics tracking, automated registration verification, optimized judge allocations, and streamlined project evaluation processes.
- Assisted in improving administrative workflows, significantly boosting efficiency and reducing manual workload for the organizers of PICT InC 24.

PROJECTS

DocuMind | Advanced AI Document Assistant

[Live-Website](#)

- Created and implemented a Retrieval-Augmented Generation (RAG) chatbot to handle intelligent queries and provide contextual responses tailored to specific documents.
- Implemented a machine learning clustering model to ensure that the generated one-page summaries accurately represented all diverse content and captured all critical information.
- Pre-trained chatbots with expertise in a particular domain (Finance Master, Plant Expert & Legal Assistant)

RE-SOURCE | Smart Waste Management Platform

[GitHub](#)

- Developed a Smart Waste Management Platform using the MERN stack, featuring an admin dashboard for real-time tracking of waste collection and an API-based map service for optimizing waste collection operations.
- Optimized the Traveling Salesman Problem (TSP) algorithm to find efficient routes to all collection sites and back, reducing time complexity from factorial to exponential through bitmask dynamic programming.
- Created an e-commerce portal within the platform to facilitate the sale of waste and up scaled products.

Galvatron | Data Encryption and Infinite Storage Tool

[GitHub](#)

- Engineered a tool to encrypt and decrypt files by transforming them into binary video format, allowing for unlimited storage capacity on YouTube.
- Incorporated steganography to hide the original file extension within the encrypted video, preserving the file's integrity.

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript, Java

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](#)