

# AARYA SADAWRATE

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## ABOUT ME

Aspiring Software Developer with a strong interest in AI/ML. Currently pursuing B.Tech in Computer Science and Engineering (AIML) at Vishwakarma Institute of Technology, Pune. Skilled in programming and eager to deepen expertise in AI/ML technologies, with a focus on developing practical, scalable solutions.

## EXPERIENCE

Oct 2023 - Dec 2023

### Nataraj Services

contact@natarajservices.in

### Summer Intern

Developed a payroll system for government employees using C# and .NET 3.5, automating salary management, allowances, deductions, and tax calculations. Scaled the solution across multiple head offices and sub-offices in Chhatrapati Sambhajinagar ZP, streamlining payroll processes and improving efficiency.

## PROJECTS

### ReqAuto

- Built an AI-powered platform to auto-generate and manage software requirements from natural language input.
- Used local instance of DeepSeek and Llama 3 with Ollama and LangChain to generate, refine, and validate requirements with contextual accuracy.
- Implemented NLP-based classification and prioritization aligned with standard requirement frameworks.
- Designed a smart parser to convert vague user inputs into structured, actionable specifications.

### VerifyMD

- Developed VerifyMD, an AI-powered assistant for orthopedic doctors to analyze X-rays.
- Built a ResNet-based CNN with  $\approx 93\%$  accuracy for detecting key focus areas.
- Integrated Google Gemini + LangChain for a conversational interface.
- Developed an X-ray processing pipeline for feature extraction.
- Optimized FAISS-based vector storage for case retrieval.

## EDUCATION

### Bachelor of Technology in CSE(AIML)

Vishwakarma Institute of Technology, Pune

Aug 2024 - Present

### Diploma in Artificial Intelligence and Machine Learning (91.53%)

Government Polytechnic, Chhatrapati Sambhajinagar

Jun 2021 - Jun 2024

### SSC (94%)

Podar International School CBSE, Chhatrapati Sambhajinagar

Jun 2021

## SKILLS

- Programming Skills:** C, C++, Java, Python
- Databases:** MySQL
- Software Development:** Object-Oriented Programming (OOP), Agile Methodologies
- Machine Learning:** Scikit, PyTorch
- Retrieval Augmented Generation (RAG):** LangChain, VectorDBs
- Data Processing and Visualization:** Pandas, Numpy, Matplotlib, Seaborn
- Version Control:** Git