

Atharva Shirke

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EXPERIENCE

Persistent Systems Ltd.

Software Engineer Sept 2023- Present, Pune, India.

- Worked with **Object Detection**, implementing business use cases using **YOLO**.
- Collaborated on building a customGPT using **LangChain** and **Llama Index** for **Retrieval-Augmented Generation (RAG)**.
- Developed **embeddings** for RAG models using **OpenAI** and **OLLama**, and stored them in **Vector databases** like Pinecone.
- Worked with the team to build **React** applications for **Mixed Reality (MR)** and **Augmented Reality (AR)** Proof of Concepts (POCs).
- Developed **backend** solutions using **FastAPI** and **MongoDB**.

Persistent Systems Ltd.

Software Engineer Intern June 2023 - Sept 2023, Remote

- Worked as a **Java Salesforce Intern**.
- Learnt Java, HTML5, CSS3, JavaScript.
- Understood working and implementation of **Salesforce**.
- Worked as **Python** Developer.

Knowledge Solutions India

Machine Learning Intern July 2021 - Sept 2021, Remote

- Worked as a **Machine Learning Intern** in the organization.
- Learnt how machine learning algorithm works.
- Gained knowledge about **neural networks**.
- Built a **Heart Disease Recognition** model during the training.

PUBLICATIONS

Published a research paper on "JOB SEARCH IMPROVING TECHNIQUE USING RECOMMENDATION SYSTEM AND OPEN AI.FOR FREELANCERS" in

[Lakshmi Book Publications \(ISSN: 2249- 894X\).](#)

SUMMARY

Innovative Software Engineer specializing in Python backend development, server management, and Extended Reality. At Persistent Systems, I excel in using advanced Data Structures and Algorithms to solve complex problems and deliver impactful solutions. I quickly master new technologies and consistently contribute to successful projects. Skilled in cross-functional collaboration, I am passionate about applying my technical expertise to drive organizational success and achieve excellence.

SKILLS

Languages: Java, Python, JavaScript, React.

Frameworks / Libraries: Django, FastAPI.

Technologies: Large Language Models, Retrieval Augmented Generation, Extended Reality.

Databases: MongoDB, SQL, Vector DB(PineCone, FAISS, Chroma DB).

Tools: Unity, Blender.

Others: Linux, Git, AWS, Gemini, OpenAI.

EDUCATION

N B Navale Sinhgad College of Engineering

Bachelor of Technology, Computer Science

CGPA: 9.68/10.00

PROJECTS

Freelancers (Django, Python, SQLite3).

A Django Web App that bridges the gap between service givers and service takers. It helps freelancers get work.

[Source Code](#)

Custom RAG(FastAPI, Python, Langchain).

Developed a custom RAG for specific business use case. Learnt about how the data is being stored and retrieved.

[Source Code](#)