**ATHARVA SHIRKE**

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**ABOUT \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_**

I am a problem-solving engineer with a proven track record in software development. Currently employed as a Software Engineer at Persistent Systems, I specialize in Machine Learning, Python backend development, server management, and Extended Reality. I possess strong skills in Data Structures and Algorithms and have a demonstrated ability to learn new technologies quickly. My role at Persistent Systems involves working in the Machine Learning and Extended Reality domains with a focus on Python backend development and server management. I am a great learner and a good team player, consistently contributing to high-quality project outcomes. I am passionate about leveraging my technical expertise and problem-solving abilities to contribute effectively to team goals and drive organizational success.

**Work Experience \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_**

1. **Persistent Systems R&D** Extended Reality COE (Sept 2023 - Present)

* Worked with Object Detection and Instance Segmentation algorithms, implementing business use cases using YOLO and R-CNN.
* Collaborated on building a custom GPT 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 a team to build React applications for Mixed Reality (MR) and Augmented Reality (AR) Proof of Concepts (POCs).
* Developed backend solutions using FastAPI and MongoDB.
* **Internship** Java Salesforce Intern (Jan 2023 – Jun 2023)
  + Worked as a **Java Salesforce Intern**.
  + Learnt Java, HTML5, CSS3, JavaScript and Ajax.
  + Understood working and implementation of Salesforce.

1. **Knowledge Solutions India** Machine Learning Intern (July 2021 - September 2021)

* 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.

**EDUCATION \_\_\_\_**

* **N. B. Navale Sinhgad College of Engineering [Solapur University] |** Bachelor’s in Computer Science | 9.66 CGPA
* **Sangmeshwar College, Solapur [XII] [State Board] |** 68.77%
* **St. Joseph High School, Solapur [X] [State Board] |** 87.44%

**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).](http://oldror.lbp.world/ArticleDetails.aspx?id=14511)***

**ACADEMIC PROJECTS** \_\_

1. **Jarvis. [C-Python, Speech Recognition, NLTK]**A C-Python app that works as a personal assistant that helps user ease day-to-day life tasks.

**[Source Code](https://github.com/atharva2001/Jarvis)**

1. **Biddings. [Python, Django, SQLite3, Heroku]**

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

**[Source](https://github.com/atharva2001/Biddings)****[Code](https://github.com/atharva2001/Biddings)** **[Biddings](https://biddings1.herokuapp.com/)**

1. **Handwritten Text Extraction. [Django, Python, Deep Learning]**

Built a Deep Learning Model for extracting text from images. Trained on Neural Network. Had an accuracy of around 80%. It is a Django Web App.

**[Source Code](https://github.com/atharva2001/HTR)**

1. **Salesforce CRM**

Completed the Salesforce Beginner track modules. Earned explorer rank on trailblazer.  
[Profile](https://www.salesforce.com/trailblazer/atharva77)

**TECHNICAL EXPERTISE \_\_\_\_**

* **Languages:** Python, Java, PHP, C, C++, HTML, CSS, JavaScript, React.
* **Frameworks / Libraries:** Django, Django Rest-Framework, FastAPI.
* **Technologies:** NLTK, Deep Learning, Machine Learning, Data Visualization, Data Science, Artificial Intelligence, Cloud Computing, Ajax, JSON.
* **Databases:** MySQL, MongoDB, SQLite3, SQL, RDBMS, Vector DB(PineCone, FAISS, Chroma DB).
* **Others:** Linux, Shell Scripting, Git, AWS, Heroku, Salesforce, GCP.
* **Tools:** Unity, Blender.

**ACHIEVEMENTS \_\_\_\_**

1. Qualified Microsoft Azure AI-900 Examination.
2. 2024 **Team** Bravo **Award** at **Persistent Systems**.
3. 600+ Problems Solved on LeetCode, Hackerrank, Code chef.