# Atharva Shirke

PortFolio, Email, Linkedin,+91-9309794449, Pune, LeetCode

## PROFESSIONAL SUMMARY

Multidisciplinary Software Engineer with **2** years of experience in delivering **Multi-Agentic Workflow**, **Remote Expert Communication, Visa Fraud Detection** and many more, combining technical skills with seamless collaboration across varied stakeholders. Seeking opportunities to contribute expertise in **Software Development** within the tech. industry.

## EDUCATION

**Sinhgad College of Engineering**, Bachelor of Technology 9.68 CGPA                    **June 2023**

## WORK EXPERIENCE

**Software Engineer - Persistent Systems, Pune**                                  **Sept 2023 to Present**

- **Managed multiple AI focused projects,** achieving measurable outcomes such as improving detection accuracy by **17%** and reducing processing time by **12%** using YOLO for real-time use cases.
- **Utilized tools like FastAPI, MongoDB, LangChain, and Pinecone** to design custom Agentic models with RAG techniques, improving query response times by **13%** and retrieval accuracy by **23%**.
- **Developed comprehensive workflows and schedules** for Mixed Reality (MR) and Augmented Reality (AR) Proof of Concepts, showcasing innovative solutions to clients.
- **Enhanced operational efficiency** by designing embeddings using **OpenAI** and **OLlama**, managed within vector databases.

**Software Engineer Intern - Persistent Systems, Remote**                       **June 2023 to Sept 2023**

- **Contributed to Salesforce-based projects,** gaining hands-on experience with its features and implementation practices.
- **Utilized Java, HTML5, CSS3, and JavaScript** to develop solutions for real-world problem statements, demonstrating technical proficiency.
- **Enhanced team workflows** by scripting Python-based tools to streamline application development processes.

**Machine Learning Intern - Knowledge Solutions India, Remote**                 **June 2021 to Sept 2021**

- **Designed and trained a heart disease recognition model,** achieving a **81.17% accuracy** in prediction accuracy during evaluation phases.
- **Utilized machine learning algorithms** to develop **Network Anomaly** Detection model.

## TECHNICAL SKILLS

- **Development**: Python, Java, JavaScript, ReactJS.
- **Database Management**: Vector DB, MongoDB, MySQL.
- **Web Technologies**: Fast API, Django, SpringBoot MVC.
- **Cloud Technologies**: Linux, AWS SageMaker AI, AWS S3, Microsoft Azure, AWS SageMaker AI.
- **Others**: Langchain, Fine-tuning LLM, Retrieval Augmented Generation, Logistic Regression, K-Means.

## Projects

- **LLM Routers | [Python, FastAPI, Langchain, Google Gen AI, OpenAI] | Source Code**
  - Built a custom **LLM Router** using Langchain to route the user queries to **appropriate LLM** which helps achieve **cost reductions** of over **85%** on **MT Bench**, **45%** on **MMLU,** and **35%** on **GSM8K**.

- **Freelancers | [Django, OpenAI, SQLite3] | Source Code**
  - Developed a Django-based **freelance marketplace**, streamlining job matching and reducing search time by **40%** through optimized filtering and **AI-driven Q&A**.