Atharva Shirke

Software Engineer (R&D)

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About	
Results oriented Software Engineer specializing in Python backend development, server management, and Extende Proficient in leveraging Data Structures, Algorithms to deliver scalable solutions. Adept at driving innovation and of emerging technologies in Agile environments. Experience	
Software Engineer.	
Persistent Systems Limited. · Pune, India	Sep '23 - Present
 Implemented object detection solutions using YOLO, optimizing detection accuracy by 17% and reducing processing to for real-time business use cases. 	time by 12%
$\cdot \ \ Collaborated \ on \ building \ a \ custom GPT \ with \ Lang Chain \ and \ Llama Index \ for \ Retrieval-Augmented \ Generation (RAG).$	
· Developed embeddings for Retrieval-Augmented Generation (RAG) models using OpenAI and OLlama, storing and n in vector databases like Pinecone, improving retrieval accuracy by 23% and reducing query response times by 13%.	nanaging them
· Built React applications for Mixed Reality(MR)and Augmented Reality(AR) Proof of Concepts (POCs).	
· Designed backend solutions via. FastAPI and MongoDB.	
Software Engineer Intern. Persistent Systems Limited. · Remote	Jun '23 - Sep '23
· Employed as a Java Salesforce Intern.	
· Completed Problem Statements given on Java, HTML5, CSS3, JavaScript.	
· Understood usage and implementation of Salesforce.	
· Experienced in Python Development.	
Machine Learning Intern. Knowledge Solutions India · Remote	Jul '21 - Sep '21
· Worked as a Machine Learning Intern in the organization.	
· Learned how machine learning algorithm behaves.	
· Gained knowledge about neural networks.	
 Designed and trained a Heart Disease Recognition model, improving prediction accuracy by 68% and facilitating early heart conditions during model training and evaluation phases. Skills 	detection of
Development: Python, Java, JavaScript, React	
Database Management: SQLite3, Vector DB, MongoDB, MySQL	
Web Technologies: Fast API, Django, PHP	
Cloud Technologies: Linux, AWS	
Others: Langchain, Fine-tuning LLM, Retrieval Augmented Generation. Projects	
Custom RAG: github.com/atharva2001/CustomRAG FastAPI, Python, Langchain Created a custom RAG system tailored to a specific business need. Explored data storage and retrieval processes to optimize	e functionality.
Freelancers: · github.com/atharva2001/Freelancers · Django, Python, SQLite3 A Django Web App connecting freelancers with job opportunities, simplifying the process of finding work.	

N B Navale Sinhgad College of Engineering | Bachelor's Degree Computer Science \cdot Grade: 9.7