

OM SHIRUDE

Open to Relocate

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WORK EXPERIENCE

<u>D10x</u>	<u>July 2024 – July 2025</u>
<i>AI Engineer Intern</i>	<i>Pune, Maharashtra</i>
<ul style="list-style-type: none">• Multi-Agent AI Development: Built a multi-agent framework for a healthcare website using LangGraph, knowledge graphs, RAG, and the OpenAI API to accurately process and respond to user queries. <i>Tools: LangGraph, Neo4J, OpenAI API, Python, NLP</i>• ETL Script Development: Developed Python scripts to collect data from APIs, web scraping, and Excel files, clean and transform it, and load it into a database for structured storage and analysis. <i>Tools: Python, PostgreSQL, Playwright, Requests, Openpyxl, Pandas, Psycopg2</i>• Hospital Ranking System: Engineered the hospital ranking feature using Python to process data, apply custom formulas, and write scripts that stored the final, calculated rankings into the database. <i>Tools: Python, Pandas, Scipy, PostgreSQL</i>• AI System Development: Tasked with building an AI-powered system designed to generate both SQL queries and data visualizations directly from natural language inputs. The core objective was to enhance the efficiency of data analysis workflows.• Multi-Agent System Experimentation: Developed GPT-4o Mini-based workflows with agents for query simplification, relevance detection, SQL generation, and result formatting; tested on <i>dvdrental</i> PostgreSQL via SQLAlchemy, with results logged in Excel.	

<u>KASNET TECHNOLOGIES PVT. LTD.</u>	<u>Nov 2023 – Dec 2023</u>
<i>Data Analyst Intern</i>	<i>Pune, Maharashtra</i>
<ul style="list-style-type: none">• Cloud and Data Training: Completed intensive training focused on Microsoft certifications, covering fundamentals in Azure (AZ-900), AI (AI-900), Power Platform (PL-900), and Data (DP-900).• Project Application: Applied the training by working with Azure Cloud Services and Microsoft Power BI to contribute to the projects.	

PROJECTS

<u>AutoViz: Automate SQL Queries and Visualizations with AI</u>
<ul style="list-style-type: none">• Automated Pipeline: Developed an end-to-end AI-powered pipeline to translate natural language user queries into data visualizations automatically.• Multi-Agent Framework: Utilized a multi-agent framework that processes user input along with a database schema, retrieved via SQLAlchemy, to generate precise SQL payloads.• Seamless Visualization: Integrated the generated SQL payloads with Apache Superset to automatically create and display charts and graphs, enabling a smooth query-to-chart workflow.• https://github.com/OmShirude/AutoViz• <i>Tools: Python, SQLAlchemy, Ollama, Apache Superset, NLP, HTML, CSS, WSL</i>

<u>SmartSlot: AI-Driven Delivery Scheduling System for India Post</u>
<ul style="list-style-type: none">• AI-Powered Optimization: Designed an AI-driven system to optimize delivery schedules for India Post, enhancing logistical efficiency.• Interactive Scheduling: Enabled recipients to conveniently select or modify their preferred delivery time slots through common platforms like WhatsApp or SMS.• Scalable Frontend: Built a scalable and modern user interface using Next.js and TailwindCSS, ensuring the system is a flexible and robust logistics solution.• https://smartslot.vercel.app• <i>Tools: Vercel, Next.js, Tailwind CSS, Twilio</i>

<u>Comparative Analysis of Machine Learning Techniques in Predicting Flight Prices</u>
<ul style="list-style-type: none">• Predictive Modeling: Developed and evaluated several regression models to predict airfare dynamics and uncover insights into pricing fluctuations.• Model Comparison: Conducted a comparative analysis of Linear Regression, Decision Tree Regressor, and Extra Trees Regressor to determine the most effective model for the task.• Goal-Oriented Analysis: The primary objective was to identify cost-effective travel solutions by understanding and forecasting flight price trends.• https://github.com/OmShirude/Projects/blob/main/Predicting_flight_prices.py• <i>Tools: Google Colab, Pandas, Matplotlib, Sklearn</i>

EDUCATION

Bachelor of Engineering, Artificial Intelligence and Data Science
Savitribai Phule Pune University (SPPU)
Relevant Coursework – Machine Learning, Statistics, Data Structures and Algorithms, Database Management System, Data Modelling and Visualizations, Web Technology, Internet of Things, Artificial Intelligence, Artificial Neural Networks, Distributed Computing, Pattern Recognition

June 2025
Pune, Maharashtra

ACHIEVEMENTS

- FIDE Rated Chess Player played at the zonal level.
- Won the Ensemble 2K24 Chess Tournament.
- Won Prize in Ensemble 2k25 Chess Tournament while arranging the whole event.
- Participated in SIH 2024.

CERTIFICATIONS

Artificial Intelligence (Infosys Springboard), AI for Youth Program (Intel), Microsoft Azure AI Fundamentals(AI-900), Reinforcement Learning and Deep Learning Essentials(Cognitive), Data Analysis with Python(Cognitive)

TECHNICAL SKILLS

Programming Languages: Python, SQL, HTML, CSS

Technology: LLMs, Multi Agent Frameworks, Context Engineering, Data Analytics, Supervised & Unsupervised Learning, NLP, DBMS, Data Preprocessing

Tools: PostgreSQL, SQLAlchemy, LangChain, LangGraph, OpenAI API, HuggingFace, Ollama, Git, VS Code, GitHub, Excel, Power BI, N8N