

Deepak Salve

Data Scientist

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Work Permit: Hybrid



Certified Data Scientist with **3+ years** of experience in **Generative AI, LLM fine-tuning, and MLOps**, specializing in end-to-end deployment of AI solutions. Proven expertise in **LangChain, AWS/Azure, and graph-augmented RAG systems**, with a track record of delivering scalable solutions like Resume Parsers, ATS, and chatbots. Adept at translating business challenges into AI-driven innovations.

SKILLS

Generative AI: GPT, BERT, Llama, T5, Stable Diffusion, LangChain, RAG, Fine-tuning & Quantization | MLOps/LLMOps: MLFlow, Airflow, Docker, GitHub Actions, LangServe, AWS SageMaker, Azure OpenAI | Tools: Python, TensorFlow, PyTorch, Hugging Face, spaCy, Neo4j (basic), NetworkX | Cloud & DevOps: AWS (S3, Lambda, Bedrock,Sagemaker), Azure (OpenAI Studio), Kubernetes, CI/CD | Data Engineering: ETL Pipelines, Feature Engineering, Time Series/Streaming Data

EMPLOYMENT HISTORY

Data Scientist | TELEMERGE IT SERVICES PVT. LTD, Pune Mar 2022 - Present

As a Data Scientist at Telemerge IT Service Ltd, I am dedicated to advancing Generative AI by working with leading frameworks and Large Language Models (LLMs) such as LaMDA, GPT-3, PaLM, and Llama. I lead the development of an innovative recommendation system that enhances our hiring processes. Additionally, I have implemented a vision-based attendance system using OpenCV and YOLO, and a text summarization tool leveraging BERT. My data engineering efforts include processing terabyte-scale datasets for wafer fault detection, achieving a 95% prediction accuracy. Collaborating with cross-functional teams, I have containerized models with Docker for efficient cloud deployment.

Generative AI Engineer | Shework.in Mar 2022 - Present

I have developed LLM-powered chatbots and resume parsers using LangChain and GPT-3.5, enhancing client HR operations. By fine-tuning BERT and Llama-2 for domain-specific applications and applying quantization techniques, I have achieved notable reductions in inference latency. Implementing end-to-end pipelines with MLFlow and Airflow has streamlined model deployment processes. Additionally, I designed a marketing campaign tracker utilizing time-series forecasting and effectively communicated insights to non-technical stakeholders.

PROJECTS

Data Scientist | Shework.in, Pune Mar 2022 - Present

SheWork.in is more than just a platform—it's a dedicated **Diversity Hiring Ecosystem** designed to help organizations struggling with diversity recruitment. Through SheWork.in, we are building a comprehensive solution to streamline hiring, recruitment, and candidate engagement processes.

As part of this initiative, I am actively working on multiple AI-driven modules, including:

- **Diversity-based RAG System** for intelligent hiring recommendations.
- **AI-powered Chatbot** to streamline hiring, recruitment, and interview scheduling.
- **Resume Parser & ATS** to enhance candidate evaluation and tracking.
- **Content & Job Recommendation System** for tailored job suggestions and industry insights.
- **Marketing Campaign Tracking Tool** to optimize event outreach, lead generation, and user segmentation.
- **Website Chatbot** for real-time support and improved user experience.

EDUCATION

Master of Engineering - MEng, Digital System | Savitribai Phule Pune University, Pune Jul 2016 - Aug 2018

Sensor Fault Detection Using Machine Learning :

This project leverages **machine learning** to detect faults in semiconductor wafers, ensuring high-quality manufacturing. Using **MongoDB** for data storage and **Flask** for deployment, the system automates fault detection based on sensor

readings. **Key benefits include improved efficiency, reduced downtime, and enhanced quality control** in semiconductor production. The model integrates **Scikit-Learn** for analysis, ensuring accurate fault classification. With real-time monitoring and AI-driven insights, the system helps manufacturers optimize processes and minimize defects. **This scalable and deployment-ready solution is tailored for industrial applications, making fault detection smarter and more efficient.**

Bachelor of Engineering - BE, Electronics & Telecommunications |
Savitribai Phule Pune University, Pune

Jun 2012 - Jul 2016

INTERNSHIPS

Cognizant Artificial Intelligence Job Simulation | Forage, Remote

Aug 2023 - Aug 2023

Completed an AI-focused job simulation for **Cognizant's Data Science team**, analyzing real-world business data for **Gala Groceries**. Conducted **exploratory data analysis (EDA)** using **Python & Google Colab**, developed a **machine learning model training module**, and generated performance metrics. Presented key insights in a **business-friendly PowerPoint report**, showcasing the impact of AI-driven decision-making.

BCG Data Science Job Simulation | Forage, Remote

Aug 2023 - Aug 2023

Analyzed customer churn for a **major energy utility company** facing retention challenges in the **SME segment** due to market liberalization. Conducted **exploratory data analysis (EDA)** to identify key churn drivers, focusing on **price sensitivity**. Engineered features and built a **predictive model** to detect high-risk customers. Recommended a **20% discount strategy** to reduce churn, with further testing advised to validate its effectiveness.

COURSES

Data Science Master at PW Skills

Jan 2023 - Aug 2023

LINKEDIN LINK

[Linkedin Link](#)

LANGUAGES

Englsih | Hindi | Marathi