

SAGAR FADATARE

Python Developer | Generative AI Engineer | AI/ML Engineer

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PROFESSIONAL SUMMARY

Python Developer and AI/ML Engineer with an MCA degree and hands-on experience in Machine Learning, Deep Learning, Generative AI, Large Language Models (LLMs), Retrieval-Augmented Generation (RAG), and data engineering. Skilled in building AI agents and applications with Python, PyTorch, Scikit-learn, Hugging Face, LangChain, LangGraph, and Anthropic Claude, and in developing ETL data pipelines with PySpark, Databricks, Delta Lake, and dbt. Seeking an entry-level Python / AI / GenAI Engineer role to build practical AI solutions.

TECHNICAL SKILLS

Programming Languages: Python, SQL, Java

Generative AI: LLMs, Generative AI, Prompt Engineering, RAG, Embeddings, AI Agents, Tool Calling, Anthropic Claude, Stable Diffusion

Machine Learning & Deep Learning: Machine Learning, Deep Learning, Scikit-learn, PyTorch

LLM Frameworks & Platforms: LangChain, LangGraph, Pydantic, Hugging Face, Hugging Face Spaces, Gradio, Streamlit

Data Engineering: PySpark, Databricks, Delta Lake, ETL, dbt, Medallion Architecture, Unity Catalog, Star Schema

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn, Power BI, Tableau

Databases: MySQL, PostgreSQL, MongoDB

Cloud: AWS, Azure

Tools: Git, GitHub, Docker, Jupyter Notebook, Google Colab, VS Code

PROJECTS

Python AI Research Agent

github.com/sagarfadatare

Python, LangChain, Anthropic Claude, Pydantic, DuckDuckGo Search, Wikipedia, python-dotenv

- Built an AI research assistant in Python using LangChain and Anthropic Claude that accepts a research topic and gathers information through tool calling.
- Integrated DuckDuckGo web search and Wikipedia search tools, plus a custom tool to save research output to a text file.
- Used Pydantic models to generate structured output (Topic, Summary, Sources, Tools Used) from the agent response.
- Managed API keys securely with python-dotenv and environment variables; documented setup and usage in a detailed README.

Text-to-Image Generation Application

Python, Stable Diffusion, Hugging Face, Gradio

- Integrated a pretrained Stable Diffusion model from Hugging Face to build a text-to-image generation pipeline.
- Developed an interactive Gradio interface to generate images from natural-language prompts.
- Deployed the application as a live public demo on Hugging Face Spaces.

End-to-End Data Engineering Pipeline

Python, PySpark, Databricks, Delta Lake, SQL, Unity Catalog

- Designed a Bronze-Silver-Gold Medallion Architecture for an e-commerce dataset.
- Performed data ingestion, cleaning, validation, transformation, and Star Schema modeling.
- Used advanced SQL (CTEs, window functions, aggregations) to generate business KPIs.
- Processed and analyzed 100,000+ transaction records across region, category, brand, and time dimensions.

NYC Taxi Medallion Pipeline (dbt on Databricks)

Python, SQL, dbt, Databricks, Unity Catalog

- Built a Medallion Architecture pipeline using dbt on Databricks with staging, intermediate, and fact layers.
- Resolved data engineering issues involving surrogate keys, CTE naming conflicts, and missing seed tables.

Netflix Movies & TV Shows Analysis

Python, Pandas, Matplotlib, Seaborn, Power BI

- Performed exploratory data analysis (EDA) to identify trends in genres, content types, and release patterns.
- Cleaned and analyzed data with Python and created an interactive Power BI dashboard to present business insights.

EXPERIENCE

Data Analytics Virtual Intern, Deloitte	June 2025 Remote
- Analyzed real-world corporate datasets to identify patterns and generate actionable insights. - Completed data analysis and forensic technology exercises in a simulated enterprise environment. - Performed data interpretation and visualization to support analytical reporting and business communication.	

EDUCATION

Master of Computer Applications (MCA), Savitribai Phule Pune University, Pune	2024 - 2026
CGPA: 8.22	
Bachelor of Computer Applications (BCA), Punyashlok Ahilyadevi Holkar Solapur University	2021 - 2024
Percentage: 83.97%	

CERTIFICATIONS

- Python for Data Science, NPTEL
- Programming in Java, NPTEL, IIT Kharagpur (Elite, 84%)
- Azure Data Engineering End-to-End, Udemy (77.5 hours)

RESEARCH PUBLICATION

- The Rise and Dominance of Cricket Over Other Sports in India, published in IRJMETS, October 2025. Analyzed survey data from 331 respondents.