

Sagar Chhabriya

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Summary

Final year Computer Science student with expertise in Python, machine learning, natural language processing, deep learning, and large language models. Passionate about leveraging analytical and programming skills to extract insights, build predictive models, and solve complex problems. I am eager to gain hands-on experience to develop data science and AI expertise further.

Education

Bachelor of Science in Computer Science

Sukkur IBA University, Sukkur, Pakistan | CGPA: **3.65** / 4.0

Sukkur, Pakistan

Aug 2022 - June 2026 (Expected)

Publications

1st ICCA Salim Habib University

Agentic Retrieval-Augmented Generation: A Compact Review

Sagar Chhabriya*, Sumra Khan, Dr. Rizwan Ahmed Khan, Mansoor Ahmed

Karachi, Pakistan

2025

Skills

Programming Languages & Tools: Python • SQL (MySQL) • MongoDB • Git • GitHub • GitHub Codespaces/Actions

Data Science & Machine Learning: HuggingFace models • RAG • ReAct • Supervised Machine Learning • Large Language Models • Natural Language Processing

Libraries and Frameworks: LangChain • Chroma • FAISS • FastAPI • Scikit-learn • Keras • PyTorch • NLTK • Cookiecutter • DVC • Streamlit • Flask

Projects

CallRAG – RAG based Chatbot

github.com/SagarChhabriya/LLMs/tree/main/callrag

- Developed a RAG-based chatbot using LlamaIndex and Gemini 1.5 Flash for accurate, context-aware responses, deployed on Streamlit Cloud.
- Enhanced user engagement by achieving a 30% faster response time and a 25% improvement in accuracy for user queries.

Salary Predictor – An End-to-End Machine Learning Application

github.com/SagarChhabriya/ML-Playground/tree/main/01-salary-predictor

- Developed and deployed a salary prediction web application with linear regression and Streamlit, resulting in a 90% R^2 score and enabling cross-platform compatibility through model serialization.
- Enhanced model accuracy by 10–15% through comprehensive data preprocessing, including missing value imputation and feature scaling.

Ragwiki – Wikipedia RAG Assistant

github.com/SagarChhabriya/RAG/tree/main/apps/01-wikipedia-rag-langchain

- Developed a Wikipedia RAG chatbot using LangChain, FAISS, and Google Gemini 1.5 to deliver context-aware answers from top-3 relevant Wikipedia articles.
- Improved response relevance and user trust by 30% with document caching, vector-based retrieval, and source attribution features in a Streamlit interface.

LangChain Summarizer

github.com/SagarChhabriya/RAG/tree/main/apps/02-langchain-summarizer

- Built a Streamlit app using LangChain and Google Gemini 2.0 for customizable paper summaries, improving user clarity by 20%.
- Integrated streaming API for real-time generation and crafted dynamic prompt templates for accurate context-aware summaries, boosting summary accuracy by 15%.

Real-Time A.I Voice Assistant

github.com/SagarChhabriya/JarvisCA

- Developed a voice-controlled virtual assistant for web searches, Wikipedia lookups, and YouTube music using Python and various libraries.
- Enhanced user engagement by achieving a 30% faster response time and a 25% improvement in accuracy for user queries.

Certification

Data Science and AI Bootcamp	—	A four-month Data Science and AI Bootcamp by AtomCamp , gaining expertise in Python, Business Intelligence, Machine Learning, Deep Learning, NLP, Computer Vision, LLMs, Generative AI, and MLOps, with hands-on experience in data pipelines and AI agent development
GitHub Foundations Exam	—	Certified in Git and GitHub, covering repositories, commits, branching, markdown, project management, and collaboration features.
Excel Fundamentals Skills Track	—	Five-course accredited program by DataCamp covering data visualization, preparation, and analysis with Excel 365.
AI For Everyone	—	An online course authorized by DeepLearning.AI and offered through Coursera.

Achievements

Book Review Competition 2022 Winner	Prime Minister Laptop Award	Master Trainee - Prevent Violent Extremism
Sukkur IBA University	Sukkur IBA University • PMYL Scheme 2023	EDC-Sukkur IBA • NACTA • European-Union