

Waiz Khalil

Python Developer | Data Scientist | Data Analyst | Data Scraper

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Professional Summary

Self-driven and detail-oriented **Python Developer** with hands-on expertise in **Data Science, NLP, AI/ML, and Full-Stack Development**. Skilled in building **LLM-powered applications** using **LangChain, LangGraph, and Retrieval-Augmented Generation (RAG)**, along with experience in **fine-tuning models** for domain-specific solutions. Adept at developing **chatbots, APIs, automation tools, and intelligent applications** using Python, Flask, and Django. Strong background in **data pipelines, real-time systems, and AI deployment** across academic and commercial environments. Successfully contributed to **AI-driven projects at AppsGenii Technologies and Consussol Solutions**, delivering practical and scalable solutions.

Technical Skills

- **Languages & Scripting:** Python, HTML, CSS, JavaScript
- **LLMs & NLP:** Lang Chain, Lang Graph, RAG, Prompt Engineering, Fine-tuning, ChatGPT & OpenAI APIs
- **Frameworks:** Flask, Django, Tkinter, Fast-API
- **AI Tools & Frameworks:** OpenAI, Hugging Face, Gemini, and other modern AI ecosystems
- **Data Science & AI:** Scikit-learn, Pandas, NumPy, Matplotlib, Lang-chain, Pickle (AI deployment)
- **Web Scraping:** Selenium, BeautifulSoup, Scrapy
- **Automation & GUI:** PyAutoGUI, Tkinter, OpenCV
- **Databases:** MySQL, SQLite3, PostgreSQL, MongoDB
- **Chatbots & Assistants:** gTTS, SpeechRecognition, pyttsx3, custom AI chatbots
- **Realtime & Server Integration:** Sockets(Django and flask)

Projects

➤ AI Dubbing and Cloning

Developed a **Dubbing system** where you can dub videos and clips with same voices into any Language. And a **Voice Cloner** where you can easily clone anyone's voice.

➤ AI CHATBOT WITH GEMINI API

Developed an interactive and intelligent chatbot using Streamlit, leveraging **Google Gemini LLM** layered with **LangChain** and **LangGraph** for modular pipeline construction. Implemented **RAG (Retrieval-Augmented Generation)** to fetch upto-date YouTube content, enabling dynamic, content-aware conversations, and applied **fine-tuning** to optimize domain-specific responses.

➤ DATA SCRAPING & VISUALIZATION PLATFORM

Built a scalable scraping system using **Scrapy** and **Selenium** to collect data from YouTube and other platforms. Processed and analyzed data with **Pandas** and **Matplotlib**, revealing key trends and patterns. Enhanced the ecosystem by integrating **bots** that leverage scraped insights to deliver intelligent automation.

➤ REAL-TIME CHAT APPLICATION

Designed and deployed a secure, real-time communication platform using **FlaskSocketIO**, featuring robust user authentication and efficient message handling. Enabled seamless, low-latency interactions for multiple users, suited for both lightweight chat usage and more complex instant messaging scenarios.

➤ YOUTUBE DOWNLOADER (GUI & WEB APP)

Engineered dual-platform applications—a desktop interface using **Tkinter** and a web interface with **Flask**—to enable users to download YouTube videos effortlessly. Ensured smooth media handling, responsive UI design, and adaptable download workflows.

➤ TOURNAMENT MANAGEMENT SYSTEM

Developed a comprehensive web platform to manage online e-sports tournaments. Implemented functionalities such as team registrations, bracket generation, real-time status updates, and administrative controls using **Python** and standard web frameworks, promoting community engagement and organized competition.

➤ AI ASSISTANT & AUTO MESSAGING TOOL

Crafted Python-based automation tools that combine **PyAutoGUI** with **LLMdriven logic** to send messages, answer user queries, and automate routine desktop tasks.

Integrated prompt engineering and RAG strategies to make responses contextually accurate and behaviourally adaptive.

Certifications

- I have done certifications in Data Science and AI/ML Engineering from IBM in Coursera. [Certification](#)

Professional Experience

Python Developer / AI Developer – Job – Consus Solutions

/ Project-Based / 2024 – Present

- Developed custom applications for clients in education and tech.
- Designed and deployed AI-powered tools to automate workflows.
- Built and maintained full-stack web and desktop solutions.
- Applied LLMs and AI APIs to develop functional, user-focused assistants.

Python & Data Science – Internship – AppsGenii Technologies

Lahore, Pakistan / 2024

- Worked on real-world projects involving **data pre-processing, ML model training, and data visualization**.
- Assisted in developing and deploying Chabot and web apps.
- Collaborated with senior developers on scalable backend systems.

Key Achievements

- Developed multiple production-ready web & desktop applications
- Successfully integrated AI & automation in real-world scenarios
- Solved data science problems for academic and start up clients
- Worked with modern AI technologies like **LLMs, Lang Chain, Lang Graph, and API's**