

HAFIZ HASSAN ABDULLAH

Islamabad, Pakistan • 0302-3536363 • rajahassan38201@gmail.com

LinkedIn: <https://www.linkedin.com/in/hafiz-hassan-abdullah-28a861246>

GitHub: <https://github.com/rajahassan38201>

WORK EXPERIENCE

Generative AI Engineer | Logic Power Solutions

October, 2025 – Present

- Deployed RAG pipelines with LangChain and LLMs for context-aware AI solutions.
- Managed AI workflows using LangGraph and n8n for automated task orchestration.
- Built web automation and data extraction pipelines with Selenium for AI datasets.
- Developed scalable generative AI apps combining LLMs with dynamic knowledge sources.
- Optimized AI pipelines for efficiency and accuracy using advanced prompts, vector DBs, and automation tools.

AI Automation Intern | Octathorn

September, 2025 – September, 2025

- Designed and implemented end-to-end automation workflows using UiPath and n8n, reducing manual work and improving efficiency.
- Built automation for data extraction, processing, and reporting across multiple systems (ERP, CRM, APIs).
- Used document understanding and OCR in UiPath to automate unstructured data processing.
- Collaborated with business teams to translate requirements into automation solutions

Data Scientist | Rhombix Technologies

August, 2025 – October, 2025

- Designed and tested machine learning models for predictive tasks, focusing on real-world applications.
- Worked with Generative AI tools and applied LangChain and LangGraph to create intelligent, context-aware systems.
- Applied data preprocessing techniques to improve model accuracy and performance.

Machine Learning | Saiket Systems

January, 2025 – March, 2025

- Assisted in data preprocessing, cleaning, and transformation using Python, Pandas, and NumPy to prepare datasets for analysis and modeling.
- Developed and evaluated machine learning models, applying key metrics such as accuracy, precision, and recall to measure performance.
- Implemented data visualization techniques with Matplotlib to present insights clearly and effectively.

Asp.Net Core Developer | Yozae

July, 2024 – October, 2024

- Developed and maintained web applications using ASP.NET Core with Entity Framework and Identity Framework.
- Implemented secure authentication and authorization systems, ensuring reliable access control and data protection.
- Designed and optimized SQL Server database structures for scalability and high performance.
- Collaborated with cross-functional teams to integrate AI-ready APIs and modern web features.
- Applied best practices in clean coding, debugging, and version control using Git.

EDUCATION

Bachelor of Science in Computer Science

- Graduated: July, 2025 | CGPA: 3.65 | Silver Medalist | COMSATS University Islamabad

Intermediate Computer Science (ICS)

- Completed: July, 2021 | 1085/1100 | Superior College

SKILLS

- Technologies: Machine Learning, Deep Learning, Generative AI, Agentic AI, Automation
 - Frameworks: Asp.Net, OpenCV, YOLO, LangChain, LangGraph, FastAPI, Django,
 - Libraries: Numpy, Pandas, Matplotlib, Scikit-Learn, TensorFlow, Streamlit, Selenium
 - Languages: Python, SQL, C#, HTML, CSS, JavaScript
 - Others: LLMs, RAG, REST APIs, Git & GitHub, OPENAI, HuggingFace
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PROJECTS

- **LangGraph SQL Agent** – Built an intelligent SQL agent using FastAPI, LangGraph, SQLite, and OpenAI to process and respond to database queries. The agent can understand natural language queries and translate them into SQL commands for real-time data retrieval.
- **LangGraph Web Scraper Agent** – Developed a web scraping agent using FastAPI, LangGraph, and Tawilow API for automated data collection. It efficiently extracts structured data from multiple websites and stores it for AI-driven analysis.
- **Customer Review Analysis & Automated Reply Agent** – Created a LangGraph agent to analyze customer reviews and generate automated responses. The system identifies sentiment, key feedback, and crafts personalized replies to improve engagement.
- **LangGraph Blog Content Creator Agent** – Designed an AI agent to generate blog content automatically using LangGraph. It produces SEO-friendly, well-structured articles based on user-provided topics or keywords.
- **AI-Powered MCQs Generator & Test System** – Developed a system using Python, LangChain, and Gemini to generate multiple-choice questions and manage tests. The platform can create question sets, evaluate answers, and provide instant feedback.
- **Smart Resume Analyzer System** – Built a resume analysis tool using Python, LangChain, and Gemini for automated evaluation and feedback. The system evaluates resumes against job descriptions and provides insights on skills, experience, and gaps.
- **Chat with Any Website & Product Analysis** – Created a LangChain-based application to analyze products and chat with any website or document. It retrieves relevant information, compares products, and provides intelligent recommendations.
- **Chatbot LangChain Application** – Designed a conversational AI chatbot with LangChain for real-time Q&A tasks. The chatbot can understand complex queries, provide accurate responses, and maintain contextual conversations.
- **AI-Based Real Estate Web Application** – Developed a modern property platform using ASP.NET Core MVC with an integrated chatbot and house price prediction. The app allows users to explore properties, chat with AI, and get price predictions using ML models.
- **Fashion Recommendation System** – Built a deep learning system using ResNet50 and KNN to recommend fashion items. It analyzes user preferences and visual similarity to suggest relevant clothing and accessory options.
- **Pakistan House Price Prediction** – Implemented a machine learning regression model to predict house prices in Pakistan. The model uses historical property data and key features like location, area, and amenities for accurate forecasts.