

# Raja Sekhar

rajasekhar.official.2001@gmail.com | 8688108937 | linkedin.com/in/raja-sekhar-8902031a4/  
github.com/Rajasekhar18110

## Professional Summary

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AI Engineer with 2.5 years of experience in Generative AI, machine learning, and data engineering. Skilled in developing RAG-based chatbots, Copilot Agents, and autonomous AI assistants using Azure OpenAI, LangChain, and vector databases. Proficient in Python, SQL, and Azure cloud services, with a strong foundation in building intelligent, data-driven solutions.

## Work Experience

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**AI Engineer/ Data Engineer, HCL Tech – Hyderabad** October 2023 – Present

- **[ICM Management using AI]** Developed custom AI Agent to answer user queries using historical incident data, improving response accuracy and reducing manual investigation effort.
- Created vector embeddings and implemented semantic searching using Azure AI Search to enhance data retrieval performance, scalability, and relevance for query handling.
- Built an autonomous email assistant in Copilot Studio that automatically responds to user queries via email by leveraging historical incident data, streamlining support workflows and reducing response time.
- **[GitHub Copilot Customizations in VS Code]** Developed custom instruction files, reusable prompt templates, and AI agents for Data Engineering and Power BI workflows, achieving 40% productivity improvement across development teams.
- Implemented custom agents and prompts for PySpark Notebook generation, star schema plan generation, and DAX optimization, reducing manual coding effort significantly.
- Also Created Reusable prompt templates for semantic model validation, and technical documentation, standardizing best practices across Microsoft Fabric and Power BI projects.
- Integrated Power BI Modeling MCP Server with GitHub Copilot to develop and modify semantic models directly, enabling real-time DAX measure optimization and streamlined model management.
- Developed a custom MCP server for generating Power BI documentation and performing data profiling on SQL servers, streamlining analytics workflows and improving documentation consistency.
- **[Copilot Studio Agent Factory]** Built an AI workflow for creating Copilot Studio agents using GitHub Copilot, reducing manual development effort by 50% and accelerating agent deployment.
- **[VivaInsights Python Library]** Designed and developed a chatbot using Retrieval-Augmented Generation (RAG) architecture to answer user queries based on FAQs (related to VivaInsights library), leveraging Azure OpenAI, LangChain, Python, and vector databases.
- **[Time Series Forecasting]** Implemented Time Series Forecasting using Azure AutoML to predict resource requirements for marketing services at Microsoft, enabling data-driven budget planning and resource allocation.

## Education

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**Indian Institute of Technology Ropar – Punjab** 2019 – 2023

BTech in Computer Science

*Relevant Coursework:* Machine Learning, Data Structures, Algorithms, Database Systems

## Skills

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**Programming Languages:** Python, R, SQL

**GenAI & LLM:** Azure OpenAI, LangChain, RAG Architecture, Agentic AI, MCP Servers, Prompt Engineering, Vector Databases, Copilot Studio

**Cloud & Azure:** Azure AI Search, Azure AutoML, Azure AI Foundry

**Data Science & ML:** Scikit-learn, Time Series Forecasting

**Tools & Platforms:** Power BI, Power Automate, Flask, Git, GitHub Copilot