

Rakshit Vyas

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About Me

Pursued B.Tech in Computer Science. Passionate about programming and design. I enjoy applying my skills to my projects. I'm a keen learner. I'm a goal-oriented person who has a "Never-give-up" attitude. I'm a self-motivated personality who is sociable with all.

Technical Skills

- **Programming:** Python
- **Cloud Technology:** Google Cloud, Microsoft Azure
- **Generative AI:** Prompt Engineering, LLMs, Multimodals, RAG, Data pre-processing, Hugging Face
- **Google Cloud Platform:** Cloud Vision, GenAI- Vertex AI, Document AI, PALM2 models, Vertex AI Search and Conversation, LLM Models – Gemini (text & Image), Unicorn, Bison, MedLM
- **Microsoft Azure:** Azure OpenAI LLM Models – GPT-3.5-Turbo, GPT-4-Turbo, GPT 4o, Azure AI service, Azure AI Search, PII Extraction, Content safety, Document Intelligence, AI Vision
- **Undergoing trainings in Generative AI, LLM, Prompt designs:** GCP, DeepLearning.AI
- **API Design & Structuring**
- **Chatbot Development:** Microsoft Copilot Studio (PVA), Microsoft Power Automate
- **Machine Learning:** Data Pre-processing, Regression, and Classification. Libraries– **scikit-learn**
- **Web Development:** **HTML-5**, **CSS-3**, and **JavaScript**. Libraries including **BS-4**.
- **Databases:** I have implemented **SQL** database in my projects. Used SMSS, Pyodbc(python)

Professional Experience –

Cognizant –

- **Health Care Insurance Client Project –**
 - **PII POC** - Retrieval and processing of data from TIFF files. Removal of PII data using Azure AI and python logic. Summarization of Member Appeal containing no PII data. Retrieval of PII data and putting back it in summary.
 - API Creation in **Azure Function**, API structuring and output designing. Creation of data store as **Azure AI Search** indexes and **Azure Storage**. Implementation of QnA using Azure AI Search service Coding implementation and logic in **Python**, **Prompt designing**, LLM Models - GPT 3.5 Turbo, GPT 4-32k, GPT 4 Turbo, GPT 4o.
 - As a primary DB developer, I designed and implemented **SQL database** schemas, created relational tables, and automated **data ingestion** from Excel to SQL. I performed **data cleansing, transformation, and manipulation** to meet use case requirements, ensuring the data is efficient enough to feed into LLM. I developed and integrated parameter logging tables for tracking production code performance. Leveraging **Python** and **Azure Functions**, I implemented high-level logic for scalable, cloud-based data workflows, embedding **SQL operations** within serverless architecture. My work encompassed data wrangling, feature engineering, and building an end-to-end **LLM data pipeline**.
- **Health Care POC Project –**
 - **UC3** – Appeal & Grievance assistant bot with three features. AnG request analyser, QnA and letter generation. Used Vertex AI Search & Conversation, GCP LLM Models, MedLM

Model, Created a bot using **Gradio** and deployed it on **Hugging Face**, **TFIDF** NLP technique for QnA.

- **UC2** – Documents Amendments using LLMs based on user instructions. Worked as a GenAI Developer. Performed following tasks - Data Pre-processing, Prompt Designing/ Engineering, **Python** code for – Build several logic for the usecase, Document manipulation using Python-docx library, Usage of Google LLMs- (**Gemini Pro**, Text- Unicorn, Text-bison)
- **UC1** – Creation of a Chatbot for customers to get their Medical insurance related queries answered. Worked as a GenAI Developer. Performed following tasks - Data Pre-processing, Prompt Designing/ Engineering, **Python** code for - Creation of Embedding (textembeddings-gecko model), Calling of the chat model (chat-bison).
- **Elevator Client Project –**
Created a Chatbot for Elevator mechanics to get there queries answered by **Generative AI** approach using an **OpenAI** (GPT-3.5 Turbo) model. Worked on chatbot development using **Microsoft Power Virtual Agents (Now Copilot Studio)**, **Power Automate**. Integrated the chatbot with client's Teams channel. Led several client demo during presentation on project status and project handoff to client (including client CTO).
- **Life Science Client Project –**
Created an Automated flow for the creation of a Reconciliation report from the data files to be downloaded from the client server by running a python script. Storing the files on SharePoint and sharing SharePoint location to BPO. Implemented using **Power Automate web and desktop version**. Later implemented same use case using Blue prism Automation Tool as client requirements changed.

Certifications

- [Generative AI & Machine learning](#) Google Cloud Skills Boost Badges (Credly)
- Certified in [Python Programming](#) and Machine learning using Python [Coursera](#) and [Udemy](#)
- Google Badge – [Cloud Technical Series](#), [Applied AI Summit](#)
- Certified for Introduction to [Artificial Intelligence](#) and [IoT](#)
- Certified in Web Development which include [HTML](#), [CSS](#), [JS](#), [Advanced styling and Responsive Design](#).

Achievements

- Received **2 Gold Awards** (Cognizant) - **Always striving never settling, Working as one.**
- Received **Sapphire Award** (Cognizant) - **Always striving, never settling**
- Received **Coral Award** (Cognizant) - **Creating conditions for everyone to thrive.**
- Earned Cognizant [AI For Leaders Foundation](#) Badge.
- Attended [Microsoft AI Classroom series](#).
- Got a Machine Learning by Python badge by [IBM](#)
- Represented school on Republic day at District level.

Educational Qualifications

- **Bachelor of Technology in 2018-2022 (Computer Science Engineering)**
LNCT Bhopal, RGPV University - 9.11 CGPA
- **12th Science from MP Board 2017-2018**
Democratic Higher Secondary School - 87.2%
- **10th from CBSE Board 2015-2016**
Carmel Convent Sr. Sec. School - 8.8 CGPA

Interests - Programming and Designs, Listening Songs, Sports – Cricket, Football, Table tennis