**Rushikesh Aher**

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Data Scientist with **3.3 years** of professional experience excelling in the development of comprehensive **Natural Language Processing,** **Generative AI, Azure OpenAI, Computer Vision, Deep Learning, Machine Learning.** Hands-on experience with frameworks like **Langchain** Pytorch, FastAPI, MLFLOW, and libraries like transformers, Huggingface OpenCV, OpenAI. Adept at solving complex business challenges Currently spearheading. the development of for **Large Language Models - LLMs** at **Cognizant India Pvt Ltd.**

Top-notch communicator with excellent learning skills, along with time management, administrative and delivering exceptional customer service.



**Skills**

**Python**| **Databases** | **Vector Database**

**Natural Language Processing -** Embedding, Classification, NER, BERT, RNN, LSTM, GPT, **Transformers**, Transfer Learning

**Generative AI -** Langchain, Azure OpenAI, LoRA, PEFT, LLMOPS, Langsmith, TruLens, **RAG** -Retrieval Augmented Generation, GPT

**Agentic Framework**, llamaindex, **Prompt Engineering**, Chain Prompt, Tree of thought Prompt, ReAct Prompt, Llama-3, QLoRA

**MLOps -** MLflow, Azure ML, Azure DevOps, Sagemaker, Docker, Github Action| **Linux** Ubuntu

**Rest APIs-** FastAPI, Flask, Streamlit as UI| **Cloud** *-*AWS Ec2, Lambda, API Gateway, Azure ML, Azure OpenAI, Azure AI



**Professional Experience**

[**Data Scientist,** *Cognizant India pvt Ltd*](https://eminds.ai/)09/2021 – present | Pune, India

Role & Responsibilities: -

*  Analyzed business needs and delivered data-driven solutions for multiple clients, collaborated with senior managers

and clients to prepare **Statement of Work (SOW)** and design **end-to-end workflow** for each project. Worked on the

latest **Gen AI** techniques, **RAG Pipelines, Prompt Engineering, LLM,** Azure OpenAI, Llama3, GPT 4, Langchain,

Azure AI Search and vector database

* Expert in creating a quick NLP, GenAI and LLM concept prototype as well as converting prototype into product.

**Intelligent Automation with GenAI Agent**, *Cognizant India Pvt Ltd*.



**Projects**

***Tech****: Python, Azure OpenAI, Langchain output parser, Postgres, Prompt engineering, AWS API Gateway, AWS ECR*

Developed an advanced GenAI agent capable of comprehending customer incident tickets, extracting essential

information, and efficiently tracking ticket resolution progress.

# Utilize the Resolve action express workflow tool to retrieve tickets from ServiceNow and seamlessly transfer them

# to the GenAI Agent for analysis.

# Employ the Langchain output parser to discern the request type embedded within the ticket and extract all pertinent details required for resolution.

# Perform post-processing of the extracted data and update predefined templates if all necessary values are present

# in the ticket description.

# In instances where essential information is absent from the ticket description, Agent notify the user via email and comment on the ticket, requesting the addition of specific fields.

# Efficiently track the ticket's progress and engage in communication with the user to resolve the ticket effectively

**GenAI Driven Ticket Management**, *Cognizant India Pvt Ltd.*

***Tech:*** *Python, Azure OpenAI, Langchain, Service Now, Azure AI Search, Azure Document Intelligence, Azure Vision, Vector Database*

By using GenAI and a knowledge base to efficiently manage and resolve customer issues by assessing incoming tickets

and assigning

them for immediate resolution or to respective teams.

# Extract all information from tickets using prompt entity extraction logic.

# Seamless integration with a centralized knowledge base for instant solutions

# Automated ticket updates, keeping customers informed and engaged.

# Efficient team assignment for complex issues, ensuring the right experts handle them.

# Real-time monitoring of incoming tickets for swift response and resolution.

**Multilingual Article Retrieval & GenAI Question Answering Chat Bot,** Cognizant *India Pvt Ltd.*

***Tech****: Python, Huggingface, sentence transformers, Azure Machine learning, Azure OpenAI, Faiss index, GenAI,* *Langchain****.***

# Developed an advanced system for precise multilingual (French, English, Dutch, Spanish, Polish, German) article retrieval by

# using sentence similarity and providing answers to user queries within articles by using GenAI question answering system.

# Enabled semantic search for multilingual articles retrieval.

# Here I have worked with French, English, Dutch, Spanish, Polish, German languages

# In memory storage for all article against a unique ID.

# Provided answers to user queries within Saved in memory index.

# If user Query is not solved, then transferring it to agent.

**Advance RAG- Confidential Document Interaction with GenAI**,*Cognizant India Pvt Ltd*.

***Tech****: Python, Azure Search, Azure Document intelligence, Azure index, Agent, Azure OpenAI, Azure*

Developed a secure document interaction system, combining GenAI, LLM, RAG, Conversation Memory, and Azure Vector Store. Enables private conversations around uploaded documents, featuring secure upload, encrypted storage, AI-driven chat, context retention, and RAG for improved document privacy, reduced data exposure risk, and enhanced user experience.

# Creating Azure Workspace and then resource group

# Creating all required module (ex: azure OpenAI, azure backend deployment)

# Uploading Our own private document.

# Updating prompt w.r.t particular domain and data set

# Creating New GenAI agent if its required

# Adding different types of prompt engineering technique (ex: one shot, chain of thought, ReAct, Tree Of Thought)

# Then Deploying using azure backend service

**AIOPS Solution for CPU Prediction and Root Cause Analysis**, *Cognizant India Pvt Ltd.*

# *Tech: Python, Grafana, Prometheus, Open telemetry, NLP, LSTM, RNN*

* Focuses on predicting CPU performance and performing root cause analysis in a Web Application 500K real time CPU metrics per day. Utilized Recurrent Neural Networks (RNN) to predict CPU consumption patterns. Distinguishing critical alerts from non-critical ones. Extended beyond CPU performance prediction, incorporating a cascaded model to identify the specific application module responsible for CPU spikes, leveraging downstream application traces collected using Open Telemetry.
* This AIOPS solution enhances system reliability and performance by predicting CPU behavior, prioritizing alerts, and pinpointing the exact application module causing CPU spikes, contributing to efficient system management and troubleshooting.

# Education

10th from HSC Board *2014 - 2015*

12th from CBSE Board *2016 - 2017*

B.E. Information Technology | Pune University *2017 - 2021*

# Certification

Microsoft Certified: Azure Data Scientist Associate (DP-100)

Microsoft Certified: Azure Data Fundamental (AI-900)

Generative AI With Large Language Model - Deeplearning.Ai

Pytorch for computer vison - Udemy

Python programming - Udemy

LLMs Mastery: Complete Guide to Transformers & Generative AI