

# MOHAMED SALMAN S

## Gen AI Developer | Python & Cloud Specialist

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Mohamed Salman S

Chennai, India



## OBJECTIVE

Gen AI Developer with 3.5 years of experience building scalable LLM applications and RAG pipelines. Proficient in Python (Flask/REST), AWS Bedrock, and orchestrating agentic workflows using LangChain and LangGraph. Expertise in containerization (Docker), vector search optimizations, and automating CI/CD pipelines via GitHub Actions. Proven track record of delivering production-grade AI solutions for financial services.

## EXPERIENCE

### Automation & Gen AI Engineer

#### Virtusa (Lloyds Banking Group)

March 2024 - Feb 2026 Chennai, India

- Developing production-grade Gen AI applications using Python and LangChain; orchestrating complex agentic workflows to automate business logic.
- Built and deployed RAG pipelines utilizing Amazon Bedrock and vector databases, optimizing retrieval strategies (chunking/indexing) for high accuracy.
- Mentoring junior developers on coding standards, GitHub Actions for CI/CD, and best practices in prompt engineering.

### Gen AI Developer

#### Virtusa

July 2023 - February 2024 Chennai, India

- Secured a position in the Gen AI Core team, reporting directly to the Vice-President of Delivery.
- Enabled efficient service management through Gen AI and Python automation, securing projects by delivering streamlined support automation solutions for clients.
- Led the recruitment and training of team members for the Gen AI Core team, ensuring proper skill alignment and continuity in team operations, while providing guidance on strategic direction and upcoming initiatives.

### Associate Generative AI Consultant

#### Virtusa (Citi Bank)

Sep 2022 - June 2023 Chennai, India

- Managed Platform Reliability and Observability for Investor Services tech stacks, actively handling server monitoring, incident response, and alert management to maintain defined SLOs.
- Entrusted to lead the department's initial foray into Generative AI, undergoing intensive training as a shadow resource to build foundational knowledge in LLMs and automation architecture.

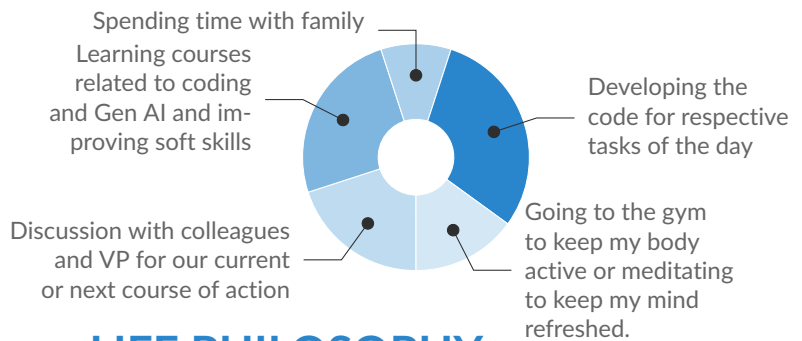
### Digital Marketer and Web Designer

#### Accsys India

March 2020 - June 2021 Chennai, India

- Designed and collaborated on the Accsys India webpage and app to strategically boost user adoption and installations for improved market engagement.
- Engaged with diverse clients to convey the value proposition of the e-commerce store, fostering investment by highlighting its purpose and potential benefits.

## A DAY OF MY LIFE



## LIFE PHILOSOPHY

*"Results speak volumes, so secure your wins. Yet, remember to embrace the journey, as it unfolds valuable lessons along the way."*

## PROJECTS

### Multimodal Agentic workflow for Service Now

#### Virtusa

- Engineered an autonomous Agentic AI workflow in Python to intercept and resolve L1 ServiceNow tickets prior to human routing. Architected a multimodal pipeline to process text descriptions and screenshots, retrieve relevant Knowledge Base (KB) articles, and generate customized, step-by-step resolution guides tailored to the user's specific issue. Tech: Python, Multimodal LLMs, RAG, ServiceNow API, Vector Embedding. (Aug '25)

### Multi-Cloud Agentic Infrastructure

#### Turing

- Architected a self-hosted agent platform using `n8n` on `GCP (Compute Engine)` and deployed autonomous agents on `AWS (EC2)`.
- Implemented `Docker` containerization for agent isolation and configured `IAM roles` and firewalls for secure inter-cloud communication.
- Designed `Python` scripts for custom tool integration, enabling agents to interact with external APIs autonomously. Tech: GCP, AWS, Docker, Python, n8n, Agentic Workflows, Network Security. (Feb '26)

### RFP Chatbot

#### Virtusa

- Developed an intelligent chatbot using the OpenAI API to automate the Request for Proposal (RFP) process. Designed the system to parse long documents, retrieve relevant information, and generate context-aware responses, significantly enhancing efficiency. Tech: Python, OpenAI, Vector Embedding, React JS. (Dec '24)

## SKILLS SUMMARY

### MLOps Cloud Infrastructure:

AWS (SageMaker, Bedrock, EC2, S3) GCP (Compute Engine)  
CI/CD Pipelines(Github Actions) Docker & Containerization  
Model Deployment Infrastructure as Code (IaC)

### AI & Machine Learning:

LLMs (GPT, Gemini, Llama, Claude) PyTorch TensorFlow  
Hugging Face OpenCV NLTK RAG Architecture  
Fine-Tuning Agentic Workflows Vector Databases  
Prompt Engineering

### Development & Orchestration:

Python (Flask/REST) SQL React JS Git  
Rapid prototyping n8n (Workflow Automation)  
LangChain Linux/Bash Scripting

### Soft Skills:

Leadership Mentorship Public Speaking

## HONORS AND AWARDS

- Secured first place in the Virtusa Gen AI Pioneers Hackathon. - Aug '24
- Led an international Automation Hackathon at Virtusa, securing first place. - Oct '23
- First place in Tech Innovators Hackathon at Chennai Institute of Technology - Nov '21

## CERTIFICATIONS

AWS Certified Machine Learning Engineer  
[Amazon Web Services](#)

AWS Certified AI Practitioner  
[Amazon Web Services](#)

AWS Certified Cloud Practitioner  
[Amazon Web Services](#)

Langchain-Prompt Engineering  
[DeepLearning.AI](#)

IELTS (International English Language Testing System)  
Band: 7.5/9

GRE (Graduate Record Examinations)  
Score: 315/340

## INTERNSHIPS

Training on Embedded Design with IoT  
[NSIC-Technical Services Centre](#)

Artificial Intelligence with Machine Learning  
[Vellore Institute of Technology](#)

## MOST PROUD OF



### Rewarding Moment

Stepping out of my comfort zone to work as a Digital Marketer, earning income, and honing crucial soft skills.



### Persistence & Loyalty

I pride myself on persisting through any difficult situations, be it in work or life



### Personal Growth

I have consistently prioritized personal growth across academic, learning, physical, professional, and mental dimensions throughout my life.

## LEADERSHIP & MENTORING

### Mentorship & Team Development

#### Virtusa

June 2024

Chennai, India

- Mentored 12 junior developers on Generative AI use cases, covering coding, error handling, full-stack development, and professional communication with superiors and clients for seamless integration into the team.

### Team leader in Hackathon

#### Virtusa

Oct 2023

Chennai, India

- Led a team of 5 to develop an RPA solution for automated ticket assignment, securing first place in a global Hackathon. Guided the team through three rounds, fostering innovation and collaboration.

### Project Lead

#### Chennai Institute of Technology

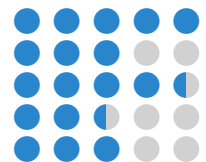
Nov 2020

Chennai, India

- Led a team of 6 in a Hackathon to design and deploy smart contracts on Ethereum's test network with Python and Brownie. Successfully delivering a solution that secured us the second runner-up position.

## LANGUAGES

English  
Arabic  
Hindi  
French  
Tamil



## EDUCATION

Bachelor of Engineering in Electronics and Communication

[Chennai Institute of Technology](#)

Aug 2018 - May 2022

## RELEVANT COURSEWORK

- Problem Solving & Python Programming
- Fundamentals of Data Structures in C
- Computer Architecture and Organization