EDUCATION

Master of Technology Computer Science, 2022. Nirma University, Gujarat, India

Bachelor of Engineering in Computer Science & Engineering 2019, Gujarat Technological University

Skills

- Python Programming
- Generative AI
- Prompt Engineering
- AWS
- Serverless Deplpyment
- Machine Learning
- Deep Learning
- Django/ Flask
- SQL
- DevOps
- Docker
- Microservice Architecture
- Amazon Sagemaker
- TensorFlow Framework
- Pytorch Framework

PERSONAL STATEMENT

As a seasoned Senior Python Developer, I bring more than 3 years of extensive expertise in a wide-ranging technology stack, including Python programming, Generative AI, Prompt Engineering, Machine Learning, Deep Learning, Django/Flask, SQL, DevOps, Docker, Microservice Architecture. This comprehensive skill set equips me to excel in crafting innovative solutions and overcoming complex challenges, enhancing my effectiveness in the role of a Senior Python Developer.

CERTIFICATIONS

1. **Introduction to Generative AI** (06/2023) Google Cloud Skills Boost
2. **NVIDIA DLI Certificate- Fundamentals of Deep Learning** (06/2021) Nvidia Deep Learning Institute Training Platform
3. **Building Transformer-Based Natural Language Processing Applications** (09/2021) Nvidia Deep Learning Institute Training Platform

ACHIEVEMENTS: Paper Publication

Title: "Microservice Architecture Observability Tool Analysis"

Various organizations need highly scalable and available architecture in this fast-forwarding world. However, it is incredibly challenging to scale monolithic architecture based on user response. In this paper, we are addressing observability design patterns. We can monitor, analyse, and inspect our application much more efficiently using this design pattern. As microservice architecture is rapidly evolving, various open-source tools are available in the market. However, there is no such hard-and-fast tool there for all the projects; it entirely depends on the business requirement of the project. This paper discussed some of the open-source tools and their advantages and how we can use these tools to achieve observability design patterns.
Research Paper Link: https://link.springer.com/chapter/10.1007/978-981-19-8669-7_1

Title: "Real-time Face Mask Detection with Face Recognition Using MobileNetV2"

In 2019, human civilization faced one of the scariest pandemics in a century. The government advises people to wear a mask for their safety. But there are some cases when we find people without masks, and monitoring all of them manually is not a practical solution in today's world. We have performed face mask detection using deep learning (MobileNetV2 model). We tested our model on live video, and the results are pretty good that our model gives 85–97% accuracy based on video quality and overall accuracy of 97–99%. Enhancement to this feature, we also apply a face recognition library to identify the person who didn't wear a mask; this feature will be useful in an industry where they must monitor their employees.

Research Paper Link:
https://ecc.journalspub.info/index.php?journal=JESET&page=article&op=view&path%5B%5D=1638

METHODOLOGIES

- Documentation
- User Experience
- Agile and Scrum
- Leadership
- Design Patterns

SOFT SKILLS

- Good communication and management skills
- Excellent in team management
- Sharp Observation Skills
- Decision Making

PROFESSIONAL WORK EXPERIENCE

A. Sr. AI Developer
Project Name: SmartFlow SageMaker
June - 2022 to Present

As a seasoned Senior Python Developer with a strong background in AWS SageMaker and AI-related AWS services, I have played a pivotal role in multiple projects, collaborating closely with cross-functional teams, including project owners, Scrum masters, product managers, back-end developers, designers, and QA teams.

Role/Responsibilities:

- Lead and manage team members, oversee daily tasks, and maintain productivity.
- Collaborate with Product Owners and Scrum masters to understand project objectives.
- Solution Architecture: Create scalable solutions based on client requirements.
- Manage infrastructure pipelines on AWS, Design projects for performance, security, and scalability.
- Task Management: Efficiently manage project tasks and issues using task tracking tools.

Technology and Tools: Python, AWS, SageMaker, S3, ECS, EC2, Lambda, Agile Development, Team Management

B. Sr. AI Developer

Project Name: SmartFlow Generative AI with Serverless Architecture

My proficiency in crafting effective prompts has consistently yielded creative, contextually relevant content. This experience showcases my deep understanding of AI capabilities, enabling me to create valuable, data-driven insights and applications.

Role/Responsibilities:

- Develop cutting-edge AI solutions, including models that autonomously generate content, art, or data.
- Utilize Serverless Architecture to build efficient, scalable, and cost-effective systems.
- Work closely with project stakeholders, including project owners, Scrum masters, product, back-end, design, and QA teams.
- Create solutions tailored to meet client requirements, ensuring client satisfaction.

Technology and Tools: Model Learning, Python, AWS, Agile Development, ChatGPT, Prompt Engineering.

C. Sr. AI Developer

Project Name: SmartFlow Deduplication and OCR

As an experienced Senior Python Developer, I have designed and developed a Deduplication module for the detection of duplicated receipts. This module utilizes the power of AI and OCR to predict entities within images.

Role/Responsibilities:

- Design and develop Deduplication modules for AI-powered duplicate receipt detection and image entity prediction using OCR technology.
- Leverage AI and OCR technologies to detect duplicate receipts and predict entities within images, streamlining processes and reducing redundancy.

Technology and Tools: Deep Learning, AWS, Python, Django, Deduplication, Model Learning, Prompt Engineering.