Shivam Choudhary

Software Engineer III – Legato Health Technologies

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⑂ https://github.com/shiv-choudhary 🌐 https://shiv-choudhary.github.io/portfolio

Summary and Experience:

➢ Shivam is a Software Engineer III in Data Science capability having a total experience of 3+ years, working primarily on the development of Data Science solutions, Machine Learning pipelines, Data extraction Pipelines, Cloud Migration and API Development.
➢ He has client engagement or domain experience with Healthcare and life science clients (2+ years), Biopharmaceuticals (1 Year).
➢ Evaluates the requirement and help with the options to make cost-optimized solutions for the benefit of clients and the organization.
➢ Expertise in designing data-driven solutions by leveraging the cutting edge technologies like AutoML/DL, AI, Cloud
➢ Identify the risk and blockers with the development to expedite the agile procedure.
➢ Involved extensively in R&D and POCs of cutting-edge technology (elastic stack, kibana, Snowflake, MongoDB integration, Azure cognitive API, RabbitMQ) which helps the senior manager to grab the extensions of the projects using the KPI.
➢ Won the prestigious INSTA award for designing a cost-effective data pipeline
➢ **Bachelor of Computer Application** from West Bengal University of Technology, Kolkata (2016-19).

Tools & Skillset:

AWS, Azure	Azure ML Studio, AWS Sagemaker	
SQL, PostgreSQL, MongoDB	Python, Scala, Java	
Robo3T, PGAdmin, SQL Server	Data Wrangling, Data cleansing	Git, Jira, Confluence

Certifications:

➢ Microsoft Certified Azure Data Scientist (DP:100)
➢ Microsoft Certified Data Fundamental (DP-900), AI Fundamental (AI-900), Azure Fundamental (AZ-900)
➢ Microsoft Certified AI-Engineer (AI-100)
➢ Microsoft Certified Python Programmer (MTA 98-381)
➢ AWS Cloud Practitioner

Project Experience:

Legato Health Technologies – *(Sept 2022 – till date)*

1. **Care Management**
   ✓ **Description**: Designed this application for care manager to identify the patient to whom to reach out regarding the care plan based on ML scoring.
   ✓ **Domain**: Healthcare
   ✓ **Role Played**: AI Engineer
   ✓ **Contribution**:
      o Designing ML/DL pipeline in order to get risk scores of patients from multiple ML models
      o Developed fastAPI in order to get inferences from model pipelines.

Deloitte USI – *(Jan 2021- Sept 2022)*

1. Data Migration and Analytics Platform

- ✓ **Description**: Migration applications of Big Data Stack to Snowflake and exposed via restful service.
- ✓ **Domain**: Healthcare
- ✓ **Role Played**: Data Engineer
- ✓ **Contribution**:
  - o Migrated on-premises big data stack to snowflake leveraging aws data services (aws glue, step functions)
  - o Analyzing the big data stack and suggesting similar cost-cutting options to clients to optimize the cost of deliverables.
  - o Handling the project deliverables from offshore, plan Scrum planning to avoid the risk of delivery on time.
- ✓ **Technology Used**: Snowflake, Spark, Scala, AWS

2. Data Migration and Application Modernization

- ✓ **Description**: Application migration from Mainframe Technology to Digital Cloud Service (AWS) in the form of scalable microservices.
- ✓ **Domain**: Healthcare
- ✓ **Role Played**: Data Science cum Data Engineer
- ✓ **Contribution**:
  - o Identified the layer of data and designed separate microservice for all the data access layer
  - o Deployed designed microservices on EKS.
  - o Written 100+ transformation rules to achieve graphQL user requests.
  - o Integrated restful services with graphQL framework to achieve reduced latency of user requests.
- ✓ **Technology Used**: Python, AWS, MongoDB, Flask-restful, graphQL, pytest, Docker, Kubernetes

Infosys Ltd - *(Sept 2019- Dec 2020)*

1. Data Remediation Tool

- ✓ **Description**: An in-house ETL workbench tool customization for the client, digitization of legacy paper recipes for modern MES system to be migrated and implemented.
- ✓ **Domain**: Biopharmaceuticals
- ✓ **Role Played**: Data Science Associate
- ✓ **Contribution**:
  - o Designed a data pipeline that will extract data from PDFs and word files and dump it into PostgreSQL for data processing and data wrangling
  - o Implemented ML model to generate keywords for building block suggestion and Template recommendation (BoW, TF-IDF, rake-NLTK)