Ritvik Sharma





EDUCATION

SRM Institute of Science & Technology (Rank 2 Amongst 2000+ Students)

2019 - 2023

Bachelor's of Technology, Computer Science with Spec. in AI-ML

GPA: 9.86/10

SKILLS & CERTIFICATIONS

AWS {Route53, CloudFront, ECS, EC2}, Python, Django, NodeJS, MySQL, Programming & Development

MongoDB, gRPC, Git, Linux, Jenkins, Docker, Kubernetes, Kafka, JWT

NLP, BERT, ALBERT, CRF, Slot-Filling + Intent Classification Machine Learnnig

Certifications Harvard Entrepreneurship, NVIDIA Deep Learning

Work Experience

Barclays Global Service Centre – Software Developer & DevOps

June 2023 - Present

- Contributed to the Successful launch of Barclays Cloud Platform (NGCB), and contributed to ArrowCard, the first credit card on NGCB.
- Saved \$15,000+ per month by developing utilities ensuring optimal AWS Lambda usage
- Reduced Error Resolution time by around 75% by developing an error routing utility across domains using Python, IBM Netcool, SNS Topic and Subscription Filters
- Optimized and Developed automated CICD pipelines for smooth deployments with 63% higher success rates.

Barclays Global Service Centre – Summer Internship

June 2022 - August 2022

- Used Python and MongoDB to scan logs in Kibana and find the most frequently visited journeys to migrate from on-premise to AWS.
 - Journey: Login, Transaction and View Statement are some journeys
 - Save cost by finding out which services are rarely used to avoid deploying on AWS
 - Finding out which services are causing the most errors
- Optimized and Reduced code complexity using SonarQube + Java by 31%.

Achievements & Projects

University Hackathon Winner: Mercury ChatBot

Link to Demo

- A Chatbot built using AIML technologies for finding food order details from a sentence such as I want 2 Veg Margherita Pizzas with Olives from Dominos.
- **Designed and Implemented** the backend of the Mobile app made with Python, Flutter and using ALBERT (LLM for NLP) and CRF (Probabilistic Prediction) and Speech To Text.

HyperSafety: Workplace Safety App

Link to Demo

- An app for monitoring People and flagging those without Masks to keep the Workplace Safe.
- Designed and Implemented the backend of the Mobile app where I worked on Face Detection and Recognition along with MySQL DB and NodeJS Backend.

Publications

Sharma, Ritvik (Dec. 2024). "VectorQuest: A Faster and Better Open-Domain Question-Answering System". In: Springer International, pp. 1–11.