Ritvik Sharma

Data Scientist & Cloud Computing

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Work Experience

Barclays India Full-Time (July 2023 - Present)
~ Graduate Analyst

- ➢ **Saved $15,000+ per month** for Barclays by developing utilities ensuring optimal AWS Lambda usage.
- ➢ **Reduced Error Resolution time by around 75%** by developing error routing mechanisms across domains using python, IBM Netcool, AWS Logs Subscription Filters.
- ➢ Took initiatives in **optimizing** and developing **automated CICD** pipelines for smooth deployments with **63% lower downtimes.**
- ➢ **Participated in the Successful launch of Barclays Cloud Platform (NGCB),** and contributed to **ArrowCard,** the first credit card on NGCB.

Barclays India 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-prem to AWS.
  - o **Journey:** Login, Transaction and View Statement are some journeys
  - o Find which services are rarely used to avoid deploying on AWS and saving cost.
  - o Find which services are causing the most errors.
- ➢ Worked with **SonarQube + Java** for code optimization

My Achievements

- ➢ *Got First Prize in SRM Hackathon, "Hack-n-Learn"*

  Mercury : A Chatbot built with ALBERT and CRF for finding order details from a sentence such as "I want *2 Non-Veg Pizzas* from *Dominos*."

- ➢ Published an article on Medium.com about making a chatbot using Albert and CRFs which attracted a popular chatbot organization www.chatbotslife.com

- ➢ Mercury
  - o Mobile app made with Python, Flutter and using **Machine Learning** to order food by simply speaking or typing out the order.
  - o I came up with the design and worked on the backend.
  - o Website: Used **AWS Route53 and AWS CloudFront** to configure **Cloud DNS** and host Mercury on my website.
  - o Machine Learning: **ALBERT** and **Conditional Random Fields (CRFs)**
  - o Project: https://mercury.ritvik-sharma.com/
  - o Demo: https://www.youtube.com/watch?v=fgn-1RZ8AKM

Skills

AWS: Lambda, ECS, ApiGateway, EC2, S3, Glue, DynamoDB

Python, NodeJS, ExpressJS, MySQL, MongoDB

NLP Tasks with BERT and ALBERT: Q/A, Sentiment Analysis, Slot Filling & Intent Classification.

gRPC: Bidirectional Streaming Service for Speech to Text (STT) using Google's STT API

Other Projects & Publications

VectorQuest: Faster and Better Open-Domain QnA System

Proved that using Vector Databases, instead of Pandas is around *50x* faster while retaining model accuracy.

Publication: Springer International Journal

HyperSafety

Mobile app made with **NodeJS-ExpressJS**, Python, **OpenCV** and Flutter to ensure that employees physically present in work places are wearing masks at all times.

I worked on **Face Detection and Recognition** along with **MySQL DB** and **NodeJS Backend**.

Project : https://hypersafety.ritvik-sharma.com/

Demo: https://www.youtube.com/watch?v=LwRyr8F4fns

Education

SRM Inst. of Sci & Tech

2019 - 2023 // Chennai, TN

B.Tech in Computer Science with AIML

University Rank #2 holder with **CGPA: 9.86**

Certifications

Harvard University Technology Entrepreneurship

NVIDIA Fundamentals of Deep Learning