

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**.
- Launched 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.
 - **Journey:** Login, Transaction and View Statement are some journeys
 - Find which services are rarely used to avoid deploying on AWS and saving cost.
 - 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](#)
 - Mobile app made with Python, Flutter and using **Machine Learning** to order food by simply speaking or typing out the order.
 - I came up with the design and worked on the backend.
 - Website: Used **Google Cloud Platform (GCP)** to configure **Cloud DNS** and host Mercury on my website using **firebase**.
 - Machine Learning : **ALBERT** and **Conditional Random Fields (CRFs)**
 - Project: <https://mercury.ritvik-sharma.com/>
 - Demo: <https://www.youtube.com/watch?v=fgn-1RZ8AKM>

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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

[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**.

Website : Used **Google Cloud Platform (GCP)** to configure **Cloud DNS** and host HyperSafety on my website using **firebase**.

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](#)