

Ritvik Sharma

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WORK EXPERIENCE

Barclays India – Software Developer

June 2023 - Present

- **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**.
- Participated in the **Successful launch of Barclays Cloud Platform (NGCB)**, and contributed to **ArrowCard**, the first credit card on NGCB.

Barclays India – 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-prem 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.

EDUCATION

2019 - 2023 Bachelor's in (C.Sc with Spec. in AIML) at **SRM University** (GPA: 9.86 || *Silver Medalist*)

PUBLICATIONS

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

SKILLS & CERTIFICATIONS

Programming & Development	AWS – Route53 + CloudFront + ECS + EC2, Python, Django, NodeJS, MySQL, MongoDB, gRPC–bi-directional data streaming
Machine Learning	NLP, BERT, ALBERT, CRF, Slot-Filling + Intent Classification
Certifications	Harvard Entrepreneurship , NVIDIA Deep Learning