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 Learnnig	NLP, BERT, ALBERT, CRF, Slot-Filling + Intent Classification
Certifications	Harvard Entrepreneurship , NVIDIA Deep Learning