

ROHIT RADHESHYAM UPADHYAY

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EDUCATION

Master of Science – Computer Science

Rutgers University, New Brunswick, NJ

Aug 2021 – May 2023

Bachelor of Engineering – Computer Engineering

Ramrao Adik Institute of Technology-University of Mumbai; CGPA: 7.59/10

Aug 2015 – May 2019

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java, GO, MATLAB, R, Swift, JavaScript, GNU Octave

Databases: Oracle, MySQL, PostgreSQL, DynamoDB, MariaDB, MongoDB, Firebase, AWS Aurora

Technologies and Libraries: AWS, Git, Keras, Tensorflow, Scikit-learn, PyTorch, OpenCV, Node.js, React.js

Skills: Backend Development, Devops, Infrastructure as a Service (AWS CI/CD, Cloudformation), Frontend Development, Agile and Scrum, Test Driven Development, Software Maintenance

Certifications & Training: AWS Certified Solutions Architect Associate, Machine Learning by Stanford Online

EXPERIENCE

ECS CONSULTANCY Infosolutions Pvt. Ltd. – Pune, India

Associate Consultant

Jul 2019 – Aug 2021

Barclays Chatbot:

- Coordinated within a fast-paced team of developers from AWS and Barclays to deliver a QnA Chatbot for Barclays UK, using AWS Lex, Lambda and Connect.
- Aided the production activities and deployed the bot to cater 100% of the Barclays clients in July, 2021.

Greenflag Secure-IVR:

- Led the development of the Secure PCI Compliant payment IVR for Greenflag UK, wherein the customer can make payments via Voice or using DTMF on a call.
- Developed using AWS Connect, Lambda, and Voice Biometrics for user authentication.

Multi-channel Customer Service Software:

- Performed NLP to extract sentiment from customer's call recording or from text transcripts and enabled real-time transcription for customer audio.

Research project for a CX strategy:

- Developed an AWS chatbot with Image Recognition (97% accurate) and Sentiment Analysis (94% accurate) capabilities.
- Demonstrated the development of an entire enterprise level architecture using just AWS.

TATA CONSULTANCY SERVICES – Thane, India

Intern

Jul 2018 – Jun 2019

Android App to Convert Excel Data to Graph:

- Collaborated with a mentor on a Live Research Project and studied strategies for implementing Natural Language Processing.
- Incorporated file read functionality in Android and used SQLite to store data in the local memory.

PROJECTS

Exploratory Analysis of North Atlantic Hurricanes (Data Science using R)

- Performed Data Exploration and Analysed Hurricane AMO dataset ranging over 100 years starting from 1870 to 2020, to find a relationship between Hurricane occurrences and the factors that influence the occurrences of Hurricanes.
- Analysed factors like rising sea temperatures, air pressure, etc. to determine the correlation between increased Hurricanes in the past decades.

Galaxy Generator (Python, Keras, Tensorflow, Convolutional Neural Networks, Generative Adversarial Network)

- Architected a Generative Adversarial Network, to produce an entirely new set of galaxies from a NASA dataset of existing galaxies.
- Implemented the concept of generative modelling using deep learning methods, such as Convolutional Neural Networks.

Smart Interviewer (Python, Keras, Matplotlib, NLP, Audio Processing, Convolutional Neural Network)

- Engineered a system to perform Multi-modal Sentiment Analysis on a real-time interview.
- Generated a comprehensive analysis of the overall sentiment of the interviewee for the interviewer with an accuracy of 96% for audio and 89% for video.
- Conducted audio sampling and Mel-Frequency Cepstrum Coefficient (MFCC) feature extraction on audio and employed Haar cascades for facial feature extraction.