Rashi Dhir

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EDUCATION

New York University Tandon School of Engineering　　　　　　　　　　　Brooklyn, New York
CGPA: 3.55/4.0, Master of Science in Computer Science　　　　　　　　　　*Dec 2022 (Expected)*
Symbiosis Institute of Technology　　　　　　　　　　　　　　　　　　　　Pune, India
CGPA: 8.0/10, Bachelors of Technology in Computer Science　　　　　　　　　　*May 2020*

TECHNICAL SKILLS

Languages/Technologies: Java, Python C/C++, Javascript, SQL, HTML5, CSS, XML, Git, Amazon Web Services, Tableau, Git, Matlab
Frameworks/Libraries: Apache Hadoop, Apache Spark, Apache Kafka, PySpark, Bootstrap

EXPERIENCE

Software Engineering Intern - NLX Inc. *(June 2021- Aug 2021)*
- Designed an Open Sourced MVP to accept design input from Figma and import it to a visual canvas as part of Voice Compass to decrease the lead time to production by 50%. Implemented a plugin that accepts JSON inputs to create personalized designs using TypeScript and categorize them into user-defined groups.
- Converted user-given string input into JSON arrays. Extracted and modified the coordinates from the JSON array to make it proportional to the Voice Compass canvas. Compressed the JSON data as a string and created a 'COPY LINK' button to use it as a preview for the journey before deploying the actual code.
- Accepted images from a user, by calling the voice compass API request to retrieve the destination S3 bucket location to upload the image to S3 bucket so that the user can work with images seamlessly.
- Focused on user experience design of the plugin UI window using HTML, CSS, and React to provide optimum functionality. Performed unit testing of APIs in Postman to validate status 200 response.
- Increased the sales of VoiceCompass product by 63% and reduced usage of computing resources significantly.

Data Scientist Intern - AlgoAnalytics pvt. Ltd. *(Jan 2019- June 2019)*
- Developed an Android app to assist doctors to create prescriptions using voice commands and output them into PDFs. Implemented Microsoft Azure STT API for speech to text conversion.
- Used Google DialogFlow to disambiguate the output of the STT API. The mobile application was developed using Java and Android Studio and the principle of language model and acoustic model of Natural Language Processing. SQL Alchemy and Flask framework were used to manage the doctors', patients' and medicine information in the database.
- Observed an increased accuracy by 21% for prescriptions.

PROJECTS

Dining Concierge Chatbot
- Dining Concierge Chatbot is an AWS-based serverless cloud application that sends you restaurant suggestions given a set of preferences that you provide the chatbot with through conversation.
- Deployed the webpages on Amazon S3 and created a REST API using Amazon API Gateway to connect all the endpoints. Used Amazon Cognito to authorize users and built the dining concierge chatbot using Amazon Lex.

Smart Photo Album
- Photo album web application that can be searched using natural language through both text and voice. This application uses Lex, ElasticSearch, and Rekognition to create an intelligent search layer to query your photos for people, objects, actions, landmarks and more.
- When user types in a sentence, it is handled by Lambda Function, which utilizes Lex to parse the sentence and get the keyword to return the corresponding photos that contains that keyword.

Analyzing Temperatures based on Covid Lockdown
- an attempt to analyse the effect of covid lockdowns on everyday temperatures. It is specifically focused on NYC's weather data to apply the lockdown period information to observe a pattern of temperature curve.
- Framework/ETL Tool: Apache Spark + Pyspark as an ETL tool to pre-process large scale data

RESEARCH PUBLICATIONS

Dhir, R., Ashok, M., Gite, S., Kotecha, K. (2020, December). Automatic image colorization using GANs. In International Conference on Soft Computing and its Engineering Applications (pp. 15-26). Springer, Singapore.