Hardik Jivani

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EXPERIENCE:

Software Engineer - Data, PeopleReign Inc, San Jose, CA   May 20-Present

- Designed a Self-Service Virtual Agent with an ability to train Virtual Agent in 20+ languages, which involved getting Administration Console and Data Layer work with Centralized PostgreSQL database to deliver real-time training of their own Virtual Agents.
- Accomplished migration from legacy Talend ETL pipelines to customized dynamic ETL data pipeline using **Airflow**, to ingest data from **ServiceNow**, **Sharepoint**, **Jira** into **PostgreSQL** and **Solr**
- Tuned the long-running **ETL** jobs by improving the query performance and reduced the running time of data ingestion jobs, to be used for Machine Learning Pipeline Training
- Improved latency of the PeopleReign API by queuing machine learning training jobs into **Redis**
- Built **ServiceNow** Portal Widget using **AngularJS** to communicate with the PeopleReign platform which builds dialog with the users to resolve IT and HR related issues
- Built Classify Prediction and Recommend Advise app with ServiceNow integration with PeopleReign platform to reduce the overall time cycle ticket creation to resolution
- Drove the initiative to build a robust microservices for Insights in mean time-to-resolution, tracking tickets volume, measuring entitlement utilization, using Python Flask, Javascript, jQuery and HTML
- Built and deployed Docker containers for each microservices, improving developer workflow, increasing scalability
- Created and maintained fully automated CI/CD pipelines for code deployment into cloud platform AWS using Bitbucket
- Completed 3 POC's for the customers successfully

Data Engineer Intern, Applied Informatics Inc, New York   May 19-Sept 19

- Implemented scalable, fault-tolerant, robust and well-documented code across a distributed architecture leveraging **Docker** for scraping clinical trials data available publicly
- Spearheaded in-depth Exploratory Data Analysis of the clinical trials data in collaboration with the AI/ML team to discover trends & patterns by creating ML models like Classification and Regression, which helped predict future trends
- Built and deployed **Django** application which serves live charts and results from the Exploratory Data Analysis which were integrated with the company product, and helped identify the positive and negative elements

TECHNICAL SKILLS:

Programming Languages: Python, SQL, Node.js, NoSQL, Go, jQuery, JavaScript
Big Data/Databases: PostgreSQL, Solr, Redis, ElasticSearch, DynamoDB, Kafka, PySpark, MongoDB, MySQL
Cloud Technologies: Google Cloud, Amazon Web Services, Microsoft Azure, EC2, Lambda, S3, RDS
Tools/Technologies: Flask, Django, Git, Docker, Heroku, Bot Framework, AngularJS, Pandas, Numpy, Jupyter, Airflow

EDUCATION:

New York University, Master of Science in Computer Science | GPA – 3.7/4   May 2020
(Courses: Database Systems, Big Data, Machine Learning, Algorithms, Artificial Intelligence, Cloud Computing)
Mumbai University, Bachelor of Engineering in Computer Engineering | CGPA – 8.7/10   May 2018
(Courses: Artificial Intelligence, Machine Learning, Image Processing, Soft Computing, Parallel and Distributed Systems)

ACADEMIC PROJECT:

MyMacroChef (AWS, **Alexa, SageMaker**, ElasticSearch, Kinesis, **Kinesis Video/Data streams, Lambda, Cognito,** DynamoDB)

- Drove the initiative to build a scalable intelligent BMI based Meal Planner and Delivery web application using SageMaker to recommend meals based on BMI and using Geolocation to track delivery location

PERSONAL PROJECTS:

- Engineered Text-To-Speech tool using Google Text-to-Speech API for converting large sets of text contents in multiple vernacular languages.
- Architected solution using Google Speech API by enabling search using Solr in Non-Textual content like Audio/Video
- Implemented microservice to insert Unstructured books data into MySQL database which enabled search in Books
- Built Indian Language **Speech-to-Text RNN model** with **82% accuracy** using **Tensorflow/Keras**
- Built **Product Scraper** to scrape products from StadiumGoods using **Selenium,** and store into **Firebase** using **Node.js**
- Developed web-based ChatBot using AWS **Lex**, **Lambda**, **DynamoDB**, to recommend restaurants to the customers, based on cuisine and location preferences