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Software Engineer

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WORK EXPERIENCE

Backend Developer, Inventory Planner Project
Anicca Data Sc. Solution PVT. ltd.

02/2023 - 12/2023

Achievements/Tasks

- Conducted in-depth **data analysis** on 12 ERPs, cleaned and structured the data for **demand forecasting**.
- Tested and validated a diverse set of ML models using **Python** to **forecast product demand and sell-through**. Accurately predicted sales (> 90%) for the next 10 weeks, aiding **strategic planning** and **inventory** management.
- Implemented **Airflow DAGs** for automating data preprocessing, ML model training, and prediction tasks. Orchestrated model scheduling and execution for timely updates.
- Successfully deployed **Airflow** locally using **Docke**r. Established a seamless connection between Airflow and an **S3 bucket** for efficient data management.
- Maintained a GitHub repository for version control and documentation for DAGs to facilitate knowledge sharing and ensure consistency. Used SonarQube to maintain code quality standards.

Backend Developer, McDonald's RFM Project
Anicca Data Sc. Solution PVT. ltd.

03/2022 - 01/2023

Achievements/Tasks

- Upgraded the database from legacy oracle database to new **PostgreSQL database** as a part of Mcdonald's **digital transformation** using **Liquibase.**
- Deployed local **PostgreSQL** using **Docker**, simplifying setup and management. Employed containerization to encapsulate PostgreSQL, ensuring consistency and isolation.
- Created scheduler task to run database synchronization using **spring-boot** to ensure that the data in the old database and the new database are always in sync.
- Used **Java 8 Gradle** to develop APIs and **microservices** for certain tasks in UI and maintained it using **Swagger**, ensuring compatibility and seamless integration with front-end components.
- Deployed code to Git for version control. Maintained code quality standards with **SonarLint.**

Intern, McDonald's Computer Vision Project
Anicca Data Sc. Solution PVT. ltd.

01/2022 - 05/2022

Achievements/Tasks

- Annotated raw data of vehicle in drive through customers and inhouse customers using **CVAT**.
- Labelled certain tasks of customer and staff in the CCTV footage. This data was used by computer vision algorithm to calculate average serving time, identify rush hours, determine McDonald's staff's work and leisure time.

SKILLS

`Java 8+` `RESTful API` `Microservices`

`Spring Boot` `kafka` `junit` `swagger`

`Database SQL` `Python` `C` `C++`

`Oops` `Airflow` `Docker` `PostgreSQL`

`SonarQube`

EDUCATION

Electronics and Telecommunication Engineering
IIIT Bhubaneswar

08/2018 - 06/2022

Projects

- Designed a 5G antenna for commercial mobile phones.
- Researched on Side looking radar system.
- Designed an IoT system for an underground cable fault distance locator.

PROJECTS

Sign Language Recognition

- Researched and implemented various Deep Learning methods like **convolutional neural network** for a Sign Language Recognition (SLR) system.
- Developed a robust framework to facilitate the creation of reliable SLR systems, enabling communication with individuals who are deaf or have physical disabilities.

IoT lock system

- The objective of this project was to create a password door locking using an embedded system.
- Encoded 8051 microprocessor to accept a particular password and unlock it.
- Used Bluetooth module to access the lock via an Android app.

EXTRACIRRICULAR ACTIVITIES

Python trainer
Successfully served as a Python trainer to teach Python to students from village schools in grades 8-10. Empowered underprivileged students lacking proper infrastructure with essential IT skills.