Adith Prabukumar

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WORK EXPERIENCE

Frontier Science And Technology Research Foundation　　　　March 2023 – Present
Data Engineer　　　　Remote, USA

- **Collaborated** with Senior Enterprise Architects, Solution Architects, Product Managers, to understand the workflow and ensure standards and rationalization plans to improve visibility and insights of strategic outcomes to drive product impact by around 70%.
- Designed **ETL Framework using AWS** and generated pipeline which enhanced the performance of existing pipeline by 70% by working on employee data by utilizing version control of pipeline.
- **Worked** on real-time data transfer pipeline utilizing **Kafka**, transferring over **1M patient data** from local server to **AWS Redshift** data warehouse, ensuring ease of access to data and increasing productivity by 80%.
- Employed **Apache Airflow** to execute DAGs for data collection, executing data processing scripts for data validation.
- **Deployed** a bot to annotate report forms extracted from pdf files, resulting in a 63.2% increase in annotation efficiency
- Worked on unit tests and performed quality checks to achieve software functionality, glitch elimination and update maintenance of access control **optimizing 70% of manual tasks**.
- Played a pivotal role in migration of complex data sets to AWS deploying **AWS DMS**, establishing easy access to data for more than 3000 employees across the different parts of the country.
- **Collected** and aggregated data from multiple databases and performed data manipulation using SQL and translated the data into tangible outputs.
- Spearheaded a design and implementation of robust **CI/CD pipelines** using **GitHub Actions** and other version control methodologies across all projects.

AINQA GROUP　　　　August 2020 – July 2021
Data Engineer　　　　Tamil Nadu, India

- **Built** a robust website using Python capable of parsing CSV files and pushing to the company's database.
- Implemented **Python scripts** to automatically detect and handle outliers, resulting in a 45% increase in productivity.
- Leveraged **OCR technology** to extract structured data from clinical files obtained from pharmacies leading to the creation of a comprehensive data set.
- Innovated a **Tableau**-based dashboard tailored for vendors, offering insights into performance and trends.
- Incorporated various KPI trackers and vendor graphs, empowering vendors with actionable business insights.
- Methodically investigated previous projects utilized the company database, strategically improving **SQL** queries to **boost performance**.
- Developed Backend API using Java Script for Employee Access Control accessed by 65K employees with minimal guidance.

EDUCATION

University at Buffalo, The State University of New York　　　　August 2021 – February 2023
Master of Science in Data Science　　　　Buffalo, NY
Cumulative GPA: **3.8/ 4.0** - *Magna Cum Laude*

Anna University　　　　August 2017 – February 2021
Bachelor of Mechanical Engineering　　　　Tamil Nadu, India
Cumulative GPA: **3.6/ 4.0**

SKILLS

Certifications : **DataBricks** Data Engineer Associate
Languages : Python, R, Go, C, Java, SQL (PostgreSQL, MySQL), NoSQL, Git
Big Data : Apache Hive, Kafka, Hadoop, Apache Spark, Apache Airflow, Hadoop.