

Adith Prabukumar

☎ 7169944271 ✉ adithprabu27@gmail.com in LinkedIn 📁 Portfolio

Professional Experience

Data Engineer, Frontier Science and Technology

Mar 2023 | Remote, United States

- Designed **ETL Framework** using **dbt** and **Apache Spark**, to transfer data from hospitals to AWS cloud servers, leading in 60% in employee productivity
- 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%**
- 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%
- 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
- Developed a customized **NLP chatbot** for employee inquiries utilizing **Large Language Models (LLMs)** and integrated Snowflake Security tool for data access control based on clearance levels, boosting productivity by 60%
- Worked on unit tests using JUnit and performed quality checks to achieve software functionality, glitch elimination and update maintenance of access control, leading to **70% increase in performance**.
- Employed **Apache Airflow** to execute DAGs for data collection, reducing data processing time by 67%.
- Spearheaded a design and implementation of robust **CI/CD pipelines** using **GitHub Actions** and other version control methodologies across all projects.

Data Analyst, AINQA Group

Aug 2020 – Jul 2021 | Mumbai, India

- Built a website using **Python** and **Flask** capable of parsing CSV files and pushing to the company's database.
- Leveraged **OCR technology** using **OpenCV** to extract structured data from clinical files from pharmacies leading to the creation of a comprehensive data set, increasing the productivity of the team by 40%.
- Developed and maintained interactive **Tableau** dashboards that visualized critical business metrics for executive decision-making, which was presented to Senior Product Managers and Company Vice President.
- Employed diverse **KPI trackers** and vendor graphs to refine the codebase, resulting in optimized performance while creating **user-friendly documentation** for analysts

Skills

Languages: (Python, R, Go, C, Java, SQL (PostgreSQL, MySQL), Git)

Big Data: (Apache Hive, Kafka, Hadoop, Apache Spark, Apache Airflow, Hadoop)

Certifications: (DataBricks Certified Data Engineer Associate)

Education

Masters of Science in Data Science, University at Buffalo

Aug 2021 – Feb 2023 | Buffalo, NY

Cumulative GPA: 3.8/ 4.0 – Magna Cum Laude

Bachelor of Engineering, Anna University

Aug 2017 – Mar 2021 | Tamil Nadu, India

Cumulative GPA: 3.7/ 4.0

Projects

News Summarizer 📄

- Built a user-friendly website that uses an **NLP-based BERT** transformer model to summarize news articles.
- We developed the site with the **Streamlit** package and hosted it on an **AWS EC2** Instance.
- The entire project is packaged in **Docker** for easy deployment, and our deployment process is automated using **GitHub Actions** in a CI/CD pipeline.

Audiolytics: A Speech to Text Conversion Tool 📄

- Developed an **end-to-end ML model** that implements speech-to-text on audio files and returns transcribed text along with timestamps of each word.
- Applications involve podcasts and audio book editing. Model made using **wav2vec2** and endpoint with **Flask**. Packaged using **Docker** and maintained using **GitHub Actions**.