# **Adith Prabukumar**

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#### WORK EXPERIENCE

## Frontier Science And Technology Research Foundation

March 2023 - Present

Data Engineer

Remote, USA

- Developed a bot that annotates case report forms extracted from PDF files leading to 63.2% increase in streamlining data annotation.
- Executed the processing of clinical data following FDA standards, utilizing SQL DDL and DML commands.
- Managed workflows to transfer data to subsequent stages within the data management pipeline, ensuring data integrity and compliance.
- Played a pivotal role in the successful migration of complex data sets to AWS using AWS Data Pipeline. resulting in a 33% reduction in computing time, optimizing data processing efficiency.
- · Collaborated closely with study build teams from Harvard University to facilitate code checks across various domains.
- Employed **Apache Airflow** to implement DAGs for data collection, executing automated data processing scripts for streamlined data validation.
- Spearheaded the 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

- Engineered an ETL pipeline that migrated data from prototype to production stages reducing data entry efforts by 80%, optimizing allocation.
- Built a robust website capable of parsing Excel and CSV files, ensuring compliance with the company's SQL database standards.
- Implemented Python scripts to automatically detect and handle outliers, resulting in a remarkable 45% increase in productivity.
- Leveraged **OCR technology** to extract structured data from clinical files obtained from pharmacies. This implementation led to the creation of a comprehensive and organized clinical data set, facilitating data-driven decision-making.
- Innovated a Tableau-based dashboard tailored for vendors, offering comprehensive insights into product performance and trends.
- · Incorporated various KPI trackers and vendor-specific graphs, empowering vendors with actionable business insights.
- Designed and implemented a model architecture, integrating transfer learning techniques to achieve an exceptional accuracy rate of 85%
- Developed the solution using Python tools including **PyTorch, NumPy, and OpenCV2**, highlighting expertise in advanced machine learning methodologies and proficient utilization of essential libraries for robust model creation.
- Methodically investigated previous projects that utilized the company database, strategically enhancing SQL queries to boost performance.
- Implemented optimization techniques resulting in an average reduction of query execution time by 30%, leading to more efficient data retrieval and improved overall system responsiveness.

Specrom Analytics

December 2019 – June 2020

Data Science Intern

Maharashtra, India

- Engineered a robust machine learning model by harnessing the BERT transformer architecture to address essential NLP tasks.
- Employed **Keras** to meticulously fine-tune gradients, significantly enhancing model performance through strategic training on a meticulously curated dataset of news articles.
- Spearheaded the establishment of a CI/CD pipeline through GitHub Actions, resulting in swift and dependable deployment of the project and its subsequent updates. This strategic implementation streamlined development workflows, enhancing project efficiency.
- Led the design and implementation of a comprehensive end-to-end pipeline for Amazon product review scraping, optimizing data collection efficiency and accuracy.
- Developed a user-friendly Tableau dashboard tailored for vendors, providing in-depth insights into product performance, including key
  performance indicators (KPIs) and vendor-specific graphical representations.
- Conducted in-depth analysis on Walmart product reviews within the watch category, extracting valuable insights into purchase patterns and user feedback behaviors to inform strategic decision-making.

### **EDUCATION**

University at Buffalo, The State University of New York

Master of Science in Data Science

August 2021 - February 2023

Buffalo, NY

Cumulative GPA: 3.76/ 4.0 - Magna Cum Laude

Anna University

Bachelor of Mechanical Engineering

Cumulative GPA: 3.6/ 4.0

August 2017 – February 2021 Tamil Nadu, India

## **SKILLS**

Certifications: DataBricks Data Engineer Associate, AWS Certified Cloud Practitioner

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

Big Data: Apache Hive, Kafka, Hadoop, Spark