

# Ajith Kumar Ethirajulu

44 Heath St., Buffalo, NY 14214 / 716-256-4115 / [aethiraj@buffalo.edu](mailto:aethiraj@buffalo.edu)

[LinkedIn](#) • [GitHub](#) • [Portfolio](#)



## EDUCATION

### University at Buffalo, The State University of New York

Master of Science – Data Science

GPA 3.58

Summer Research Project - Leveraging AlphaFold Protein Structure Prediction for Drug Development

Buffalo, NY  
Expected Jan 2024

## EXPERIENCE

### Fractal Analytics

#### Data Engineer

Bengaluru, KA, India

July 2021 – April 2022

- Developed one-stop solution for transforming and storing logistics data using Python and Azure Functions.
- Implemented Azure Functions to capture and transform streaming data from Azure Event Hub and stored the transformed data on Azure Cosmos DB using MongoDB API.

### Infosys Limited

#### Senior Systems Engineer

Chennai, TN, India

April 2018 – July 2021

- Managed and maintained trade store applications and master databases for a banking client, ensuring data integrity and optimizing database performance on Oracle and Unix platforms.
- Leveraged various monitoring and scheduling tools including Autosys, Geneos, and ServiceNow to track system performance, schedule jobs, and ensure service level agreements (SLAs) were met.
- Developed and implemented a procedural SQL script that automated multiple manual tasks, significantly reducing the time taken to resolve critical data compatibility issues by 25 minutes.
- Infosys Certified in MySQL, Power BI, Tableau and Talend Open Studio for Data Integration. Also secured 93% in the Infosys training program on Python, RDBMS, and Software Engineering.

## PROJECTS

### Skin Melanoma Prediction

2022

- Predicted probability of a given image being skin cancer (melanoma). Used Convolutional Neural Network to build a binary classification model, trained and validated using dataset containing about 33000 images.
- Achieved 92% accuracy using a 3-hidden layer base model and achieved 94% accuracy using EfficientNetB4 transfer learning model. Deployed web app using python flask and html to upload a picture and make predictions.

### Credit Defaulter Analysis and Prediction

2022

- Utilized SQLite and Python to store and analyze vast data containing 120 features and 1.2 million records.
- Built binary classification machine learning model using Support Vector Machines, RandomForest and Tensorflow (Keras). Highest accuracy obtained 91%. Deployed Python flask app to enter customer data and provide model's predictions.

### Online Retail Sales Analysis using Power BI

2021

- Analyzed sales data using Power BI, developed detailed Power BI report with appealing visualizations, utilizing DAX for calculated measures and custom columns, and identified trends, patterns, and insights for data-driven decision-making using KPIs.

### Analysis of Loan Defaulters - Tableau

2021

- Created a Tableau dashboard with visualizations that presented clear indications of factors related to loan defaulters, providing valuable insights for business decision-makers.

## Skills:

Programming: Python, R, SQL, MATLAB, Machine Learning, Deep Learning, Reinforcement Learning

Databases: MySQL, SQLite, Postgres SQL, Data Warehousing

Data Engineering: Pyspark, ETL, HDFS

Cloud: Azure Data Factory, Azure Databricks, Azure Data lakes

Visualization: Tableau, Power BI, Seaborn, Matplotlib

## Certifications:

- PG Certification in Business Analytics and Data Science | SSN SACE | Chennai, India | Aug 2021 | CGPA: 9.3
- Microsoft Certified Azure Data Engineer Associate | September 2021 (Expires September 2023).

**Achievements:** INSTA Award, Infosys Limited, July 2020 – For exhibiting excellent teamwork and taking up additional responsibilities for the team's success.