UDAY KIRAN CHILAKALAPALLI

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SUMMARY

Experienced Data Scientist with research publication and proficiency in Python, R, and SQL seeking full-time position to advance expertise in data analysis, specializing in cloud data management, ETL, data mining, and data warehousing using AWS, GCP, Azure and MySQL server.

EDUCATION

Georgia State University - *J. Mack Robinson College of Business* ***Dec 2023***
Master of Science in Data Science & Analytics ***GPA - 4.0/4.0***
Bharath Institute of Higher Education and Research ***May 2021***
Bachelor of Technology in Electronics and Communication Engineering ***GPA - 8.9/10***

EXPERIENCE

Georgia State University - *Graduate Research Assistant* **Atlanta, GA**
Equifax ***Aug 2022- July 2023***
Skills: *Machine Learning, Logistic regression, Random Forest, GCP, Big Query, Looker, Airflow, Dataflow, NLP, Data Analysis, Clustering*

- Devised credit risk decision-making for financial institutions by developing machine learning-based products resulting in **10% accuracy** improvement in anticipating bad debt and charge-off amounts and supporting business development efforts.
- Conducted feature engineering to obtain meaningful features from raw data around **50 million** and enhanced model performance.

Tata Consultancy Services **Bangalore, India**
Data Scientist ***May 2021 – Jul 2022***

- Enhanced query performance by executing a fact-dimension table structure, reducing query time from 30 seconds to 3 seconds, resulting in **90% improvement** in data retrieval speed.
- Architected **ETL data pipelines** and built warehouses utilizing Azure, including Data Factory and **Databricks**, to extract, transform, and load data from various sources into company's data store, ensuring accurate and efficient data processing.
- Created and executed a normalized database schema, resulting in optimized data integrity and a **streamlined data** processing system.
- Constructed a real-time image classification model with **AWS SageMaker**, achieving an impressive accuracy **rate of 97%.** The model was deployed and integrated into a web application.
- Utilized advanced machine learning techniques to predict sentiment analysis on customer review, resulting in a **significant 20%** increase in customer retention, **15% increase** in revenue, and overhauled customer satisfaction and loyalty by enabling data-driven decision-making.

Imarticus **Chennai, India**
Data Engineer ***Jun 2019 – May 2021***

- Automated data processing tasks by developing generic **informatica ETL** scripts and procedures, resulting in a **50% reduction** in time.
- Implemented efficient processes using Microsoft SQL Server Business Intelligence stack (**SSAS, SSIS, SSRS**) to extract, transform, and load data from multiple sources into a centralized data warehouse, improving data accuracy and accessibility for analysis.
- Transformed raw data using SQL in **ELT pipeline** to enable Power BI dashboard creation, streamlining data visualization process and driving impactful insights for informed decision-making.
- Implemented efficient **data pipelines using Hadoop**, resulting in improved data processing efficiency & reduced processing time.

PROJECTS

Customer Analysis Dashboard | (**Skills:** *Tableau, Python)* Source Code

- Leveraged Tableau-based customer analysis to gain insights into customer behavior, allowing for informed and data-driven decision-making.
- Constructed an intuitive Customer Analysis dashboard, enabling stakeholders to easily identify growth opportunities and optimize business strategies, resulting in improved revenue and customer satisfaction.

Sales Forecasting | (**Skills:** *ARIMA, FB-Prophet, SARIMA, Timeseries, Random Forest, Decision Tree, LightGBM)* Source Code

- Utilized time series forecasting techniques in conjunction with machine learning algorithms to predict Rossmann sales with high accuracy, with **forecasts** extending up to 5 months in advance.
- Performed Data collection, EDA, Feature-Engineering, and Modelling. Attained **RMSPE score of 1.05** by Hyper Parameter-Tuning XGBoost model.

YouTube Analysis | (**Skills:** *SQL, AWS, ETL, Quicksight*) Source Code

- Built lake house architectural design using AWS S3 in layers, and Glue for data catalogues, queried information using SQL and made an ETL pipeline for a Glue Spark Jobs to join 3 YouTube raw Datasets and their cleaned reference json information.
- Processed changes using AWS Lambda, made 4 different visuals using Quicksight for likes, comments of different videos.

TECHNICAL SKILLS

Programming	: Python, R, SQL, PySpark
Libraries	: Pandas, NumPy, Sklearn, SciPy, TensorFlow, PyTorch, Keras, OpenCV, NLTK, A/B Testing, DAX
Databases	: MySQL, Oracle, Microsoft SQL Server, Mongo DB, Redshift, Snowflake
Visualization	: Tableau, PowerBI, Looker, QlikView, Matplotlib, Seaborn, ggplot2, Microsoft Excel, Plotly
Frameworks and tools	: Git, R-studio, Jira, Confluence, Informatica, Hadoop ETL, Flask, SAS, Spark, Machine learning, Heroku
Cloud Technologies	: AWS (S3, EC2, EMR, Kinesis, Sagemaker, Athena, Lambda, Glue, EC2, Lambda), GCP, Big Query, Azure

PUBLICATION

Sign Language Recognition Using Deep Learning Publication

Implemented a deep learning model for a dataset after preprocessing and feature extraction resulting in a training **accuracy of 96%** and validation **accuracy of 92%.** This improved the overall performance of the model and achieved desired results.

AWARDS & ACHIEVEMENTS

- I have harnessed **Equifax data** to create a precise, data-driven model that empowers lenders in credit risk forecasting and charge-off optimization. We're pleased to announce the **public release of our capstone project**. ***July 2023***
- **National Conference on Hand Sign Recognition** using deep learning, Received appreciation from the Dean of Engineering for exemplary demonstration of cutting-edge advancements in deep learning and its application in recognizing hand signs. ***Feb 2021***