### BHARGAVI KADAMBARI

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### PROFESSIONAL SUMMARY

Data Science Master's graduate with expertise in machine learning, data engineering, and big data analytics. Skilled in Python, SQL, Tableau, and cloud platforms (AWS, GCP). Experienced in predictive modeling, ETL pipelines, and real-time analytics, with a strong track record of optimizing business performance through AI-driven insights and automation. Adept at leveraging data-driven strategies to enhance operational performance, risk management, and user experience across diverse industries. Strong analytical and problem-solving skills.

#### **EDUCATION**

University Of North Texas, Masters in Data Science, GPA: 4.0/4.0

Jan 2024 - Present

**Jawaharlal Nehru Technological University**, Bachelors in Electronics & Communication, GPA: 7.9/10

July 2017 - Jun 2021

#### TECHNICAL SKILLS

- Data Engineering & Cloud Computing: NumPy, Pandas, ETL Pipelines, Data Transformation, Data Warehousing, GCP, BigQuery, Dataproc, AWS (S3, Glue, Lambda, Redshift), Apache Spark, Apache Airflow, Kafka, Hadoop, Open Refine, Apache Hive, Pandas & Real-time Data Processing, Streaming Data Pipelines
- Machine Learning & Data Analytics: Python, SQL, PySpark, Scikit-learn, TensorFlow, Keras, XGBoost, LSTM, GRU, ARIMA, NLP, Predictive Analytics, Deep Learning, Statistical Modeling & Exploratory Data Analysis (EDA), Feature Engineering
- Data Visualization & Software Development: Tableau, Power BI, Matplotlib, Seaborn, Plotly, Git, Jupyter Notebook, Visual Studio Code, IntelliJ, Agile, Scrum, Waterfall Methodologies

#### **CERTIFICATES**

Google (GCP) Certified Professional Data Engineer Oracle Database SQL Certified Associate

### ACADEMIC RESEARCH PROJECTS

**University Of North Texas** 

**Denton**, TX 09/2024-Present

Project 1:

**Data Life Cycle in Homeless Encampment Requests** 

- Developed a scalable data processing pipeline for analysing homeless encampment requests in Dallas using Google Cloud Platform (GCP), BigQuery, Apache Spark, and Hive. Optimized query performance through partitioning and clustering, enhancing data retrieval speed and efficiency.
- Executed advanced data cleaning and transformation using Open Refine, ensuring high-quality, structured datasets for analysis. Applied SQL-based queries in BigQuery to extract insights on encampment trends, response times, and peak request periods, enabling data-driven decision-making for city authorities.
- Deployed Apache Spark and Hive on Google Dataproc to process large-scale datasets efficiently. Leveraged distributed computing for high-speed data transformation and real-time analytics, demonstrating expertise in cloud computing, ETL pipelines, and big data management.

Project 2: 05/2024-08/2024

# **Stock Price Forecasting Project**

- Developed a robust stock price forecasting model leveraging machine learning algorithms such as Random Forest, XGBoost, LSTM, ARIMA, and GRU, integrating real-time market data to enhance prediction accuracy and adapt to dynamic financial trends.
- Engineered key features from historical stock data, technical indicators, and market factors, optimizing model performance through hyperparameter tuning, cross-validation, and evaluation metrics (MSE, R-squared) to deliver precise financial insights.
- Deployed the model via a scalable cloud-based infrastructure using Python (Pandas, NumPy, Scikit-learn, and TensorFlow), Yahoo Finance API, AWS/GCP, and Jupyter Notebook, facilitating seamless access to forecasts through a user-friendly web interface.

Project 3: 03/2024-05/2024

# **Body Fat Percentage Prediction and Analysis**

- Developed a predictive model for body fat estimation using Python (Pandas, NumPy), machine learning techniques, and data visualization tools (Tableau, Matplotlib, Seaborn) to analyze the impact of factors like metabolism, alcohol consumption, and body measurements.
- Performed extensive Exploratory Data Analysis (EDA) and feature engineering on a 252-row dataset from Kaggle, uncovering correlations between body fat percentage, age, weight, and hip circumference using scatter plots, correlation heatmaps, bar charts, and bubble charts.
- Designed interactive visualizations in Tableau to present insights on gender-based fat distribution, alcohol's impact on body fat, and key influencers of fat accumulation, facilitating data-driven health and fitness decision

# PROFESSIONAL EXPERIENCE

GCP Data Engineer at WIPRO

Hyderabad, INDIA 12/2022-12/2023

Project 1:

Project 2:

TELSTRA-Pharmacy Analytics and Optimization System

- Developed a data-driven solution to enhance operational efficiency and improve patient outcomes in pharmacy workflows.
- Designed, developed, and implemented high-performance ETL pipelines using the Python API (PySpark) of Apache Spark.
- Worked on processing unstructured data in JSON format and converting it to structured data in Parquet format by performing several transformations using PySpark.
- Optimized data processing workflows using Python and SQL, reducing costs by 15% and improving overall system performance.
- Real-time **Tableau dashboards** were developed to present **KPIs**, enhancing **efficiency by 25%.**
- Conducted a deep analysis of the SQL execution plan and recommended hints, restructuring, or the introduction of indexes or materialized views for better performance

## **AWS Data Engineer at WIPRO**

National Stock Exchange of India Limited

08/2021-12/2022

- Worked on implementing scalable infrastructure and platforms for large-scale data ingestion, aggregation, integration, and analytics in Hadoop using Spark and Hive.
- Architected a cloud-based data lake on Amazon S3, centralizing raw and processed data for seamless access to analytics.
- Designed and implemented ETL workflows using AWS Glue and Step Functions, reducing processing times by 45% and enabling efficient data migration.
- Built real-time data ingestion pipelines using **Apache Kafka** and **AWS Lambda**, supporting near real-time reporting with reduced **latency of 40%.**
- Integrated and transformed large datasets into **Amazon Redshift**, optimizing query performance and improving **analytics** capabilities by **35%** Orchestrated data workflows using **Airflow** and automated incremental loading into **Redshif**t for scalable and efficient reporting pipelines