DHARMIK KURLAWALA

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Github – www.github.com/dharmik212 | Portfolio - dharmik212.github.io/Portfolio/

EDUCATION

Master of Science in Computer Science, Cleveland State University | GPA: 3.97/4   **Aug 2023 - Dec 2025**
Course Work: Database Systems, Data Mining & Machine Learning, Big Data, Artificial Intelligence, Data Structures and Algorithms
Teaching Assistant: Enterprise Database Systems, Data Mining & Machine Learning, Database Systems, Data Structures & Algorithms

Bachelors in Electronics Engineering, University of Mumbai   **Oct 2016 – Mar 2019**
Course Work: Applied Math, OOP, Computer Communication Network, Digital System Design, Digital Communication, VLSI Design

PROJECTS

Intelligent Multi-Video Analysis System with Qwen2-VL (github.com/dharmik212/video-Analyser-with-chat-system)
- Built intelligent video analysis platform enabling interactive Q&A across multiple videos using Qwen2-VL VLM.
- Pre-processing with scene detection + frames per video, lazy AI analysis on first selection, and cached chat interface.
- Optimized GPU-accelerated inference with batch collage processing (3x3 grids) and result caching for seamless video switching, achieving ~91s initial analysis on 2-minute videos.
- Volunteering with Datachain.AI to migrate and scale architecture on their platform for distributed processing, enabling production-ready deployment and enhanced data pipeline orchestration.
- **Technologies:** VLM, Machine Learning, Python, Git, PyTorch, Transformers, Qwen2-VL, OpenCV, PySceneDetect, Datachain.AI

Azure-Based Weekly Data Pipeline for an Ohio Based Government Grants Consulting Company
- Automated weekly data ingestion pipeline processing 1,000+ records, reducing manual collection time by 70% and enabling real-time downstream job execution via scheduled Azure Databricks notebooks.
- Cleaned, transformed, and loaded data to Monday.com board using dependent Databricks pipelines for end-to-end automation.
- **Technologies:** Microsoft Azure, Azure Databricks, Azure Blob Storage, Python, ETL pipelining, Task scheduling

Azure Based End to End Data Pipeline for NYC Taxi Trips (github.com/dharmik212/End-to-End-Azure-Taxi-Data-Pipeline)
- Developed a data pipeline for NYC Taxi data using ADF, Databricks, and Delta Lake with Medallion Architecture (Bronze, Silver, Gold).
- Optimized query performance by 45% using Delta Lake versioning and time-travel, enabling governance and real-time analytics.
- **Technologies:** Azure Data Factory, Azure Databricks (PySpark), Azure Delta Lake, Azure Blob Storage, Azure Monitor

Real-Time Weather Data Streaming on Azure (github.com/dharmik212/Real-Time-Weather-Data-Streaming-on-Azure)
- Engineered an end-to-end real-time weather data streaming pipeline on Azure, ingesting, processing, and storing live weather data to enable scalable and fast time-series analytics.
- Real-time anomaly detection and alerting with Azure Data Activator, enhancing proactive monitoring and timely incident response.
- **Technologies:** Databricks, Azure Functions, Azure Event Hub, Azure Data Explorer, Microsoft Fabric, Power BI, Azure Data Activator

EXPERIENCE

Hudl (Agile Sports Technologies, Inc.)   **Mumbai, India**
Data Analytics Engineer   **Aug 2019 – Aug 2023**
- Established weekly ETL processes using SQL to extract performance data from Redash, systematically cleaning and transforming data for 160+ analysts across 8 teams to generate standardized performance metrics.
- Built performance analytics dashboards to consolidate weekly KPI reports and identify trends, reducing manual reporting by 60%.
- Delivered data-driven insights from weekly performance analysis that identified underperformers and top performers, enabling targeted interventions and achieving 23% team performance improvement.

CERTIFICATIONS

- Microsoft Certified: Fabric Data Engineer Associate
- Complete Guide to Databricks for Data Engineering
- Apache Airflow 3 Fundamentals
- Oracle Data Platform 2025 Certified Foundations Associate
- Introduction to Modern Data Engineering with Snowflake
- Data Engineering with DBT

SKILLS AND SOFTWARE

Programming & Technical Skills: Python, SQL, PySpark, Data Structures & Algorithms, ETL/ELT, Jinja, Data Processing, Data Pipelines, Data Warehousing, Data Ingestion, Transformation, Validation, Data Visualization, Data Modeling, Schema Design, Agile
Cloud & Data Tools: Microsoft Azure (Data Factory, Databricks, Delta Lake, Synapse Analytics), Apache Airflow, Snowflake, Power BI, Git, MySQL, DBT, MongoDB, Neo4j, SSMS