DHVANI MITESH KOTHARI

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EDUCATION

University at Buffalo, The State University of New York   Buffalo, NY
Master of Science, Computer Science & Engineering (GPA: 3.75)   December 2023
Courses: Data Intensive Computing, Algorithms for Modern Computing Systems, Data Models & Query Languages, Machine Learning

Yeshwantrao Chavan College of Engineering   Nagpur, Maharashtra, India
Bachelor of Engineering, Computer Science (GPA: 4.0)   May 2019

PROFESSIONAL EXPERIENCE

Solutions Architect Intern   Laguna Hills, CA
BrainChip Inc.   June 2023 – Present
- Empowered technical sales teams with **FastAPI** web-based GUI tool, driving **3x efficiency** and **customer engagement** driving upsell
- Streamlined integrated circuit scaling estimations process, reducing **30% processing time**, elevating **data accuracy** by **15%**
- Automated unit testing with **Pytest** and **Drone**, reducing time-to-market by **2 weeks**, elevating user-centric testing productivity

Data Engineer   Bengaluru, Karnataka, India
Walmart Global Tech India   May 2021 – July 2022
- Developed time-series ensemble forecast solution for **599** Sam's Clubs, saving **~$1.2 million** in annual operation planning costs
- Implemented real-time monitoring for critical model performance metrics, reducing model drift and data quality issues by **20%**
- Led a team of **6** to develop **ETL** mappings and **data modeling** on GCP, empowering data-driven insights for business derivatives
- Revamped **PySpark** pipelines with partitioning and query optimization, giving **20x speed** improvement, **saving $500k** annually

Big Data Developer   Navi Mumbai, Maharashtra, India
Capgemini   June 2019 – April 2021
- Optimized **Spark** applications, achieving **30% faster processing** through batch intervals, parallelism, and query enhancements
- Pioneered holistic automation using Azure Logic Functions and **Azure Data Factory**, delivering **100 man-hours** in quarterly savings
- Designed a comprehensive data lake spanning **11+** manufacturing sites, enabling seamless data access for over **~150** data scientists
- Engineered generic **data recovery** library, resulting in a **50% reduction** in storage costs and annual savings exceeding **$100K**
- Conducted workshops for business teams, enabling them to leverage data insights, improving the **data literacy** of the organization by 25%

PROJECTS

CineETL: Movie Insights Data Pipeline | *AWS S3, Redshift, Airflow, Spark*   March 2023 – May 2023
- Crafted ETL pipeline for **26M** user ratings and **45K** movies with a data ingestion rate of **10K** records/minutes into **AWS Redshift**
- Normalized data model, automated data quality checks, orchestrated using **Airflow** and achieved **99%** daily ETL cycle success rate

NYC-311 Service Insights | *Python, Google Cloud Platform, Terraform, Docker, Looker*   December 2022 – February 2023
- Constructed NYC 311 data pipeline, cutting manual processing by **80%**, enabling analysis of **13** years of service requests data
- Enhanced **BigQuery** performance by **40%** using strategic table partitioning and clustering for faster data retrieval and analytics

YouTube Trending Video Analysis | *AWS Athena, Glue, QuickSight*   October 2022 – December 2022
- Architected scalable data pipeline with AWS Glue ETL to transform over **100k records**, stored securely in an S3 bucket
- Employed **Lambda** functions to clean and preprocess JSON data, converting it into optimized parquet format, and automating the process through a file load trigger, saving **10%** of manual work
- Utilized **QuickSight** to analyze engagement metrics to identify top-performing videos and improve marketing strategies

SKILLS

Languages: Python, C++, C, SQL, Java, HTML/CSS, JavaScript, Scala, R, Bash
Database: SQL Server, Oracle, MySQL, MongoDB, Cassandra, SSIS, HBase
ETL/Big Data: Apache Kafka, Talend, Informatica, Apache Hadoop, MapReduce, Databricks
Cloud Technologies/Frameworks: Linux, Jenkins, Docker, Kubernetes, Google Cloud Platform, AWS, Microsoft Azure
Reporting Tools: Power BI, Tableau, Looker, QuickSight, Excel

LEADERSHIP / EXTRACURRICULAR

- Bravo award: Recognition for consistent demonstration of outstanding and exemplary performance by Walmart Global Tech
- Chaired as YCCE ACM Student chapter President to work towards goals promoting community service, academics, and unity
- Published paper at International Conference on Advancements in Computing & Management, Jaipur, India

CERTIFICATIONS AND TRAINING

- Microsoft Certified: Azure Fundamentals (AZ-900)
- Oracle Cloud Infrastructure Foundations Certified Associate