

Parshwa Gandhi

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Education

George Mason University

Master of Science in Computer Science

August 2024 – May 2026

Fairfax, Virginia

Pandit Deendayal Energy University

Bachelor of Technology in Computer Engineering

August 2020 – May 2024

Gandhinagar, Gujarat, India

Technical Skills

Programming Languages: SQL, Python , R, Javascript , C, Node.js

Database and Data Warehouses: MySQL, PostgreSQL, MongoDB, Snowflake, Amazon Redshift

Data Manipulation and Analysis: Pandas, NumPy, Matplotlib, Seaborn, Statistical Modeling

Data Visualization: Tableau, Power BI (DAX), Microsoft Excel (Advanced Analytics, Pivot Tables, VBA)

Cloud Technologies: AWS (S3, Lambda, Redshift, RDS), Microsoft Azure (Synapse, Data Factory)

Experience

Xcellence-IT

December 2023 - May 2024

Software Developer Intern

Surat, India

- Improved attendance tracking accuracy by 30% by implementing a face recognition-based system using Python, OpenCV, InsightFace, and Redis.
- Reduced manual data entry time by 40% by developing a Streamlit web application for user registration and data onboarding.
- Enhanced live monitoring capabilities by creating a real-time facial detection dashboard using Python, Pandas, and Streamlit.
- Automated attendance reporting and analytics by building a data visualization module using Pandas and Matplotlib.
- Achieved high scalability and reliability by deploying the entire solution on AWS (EC2 and S3) with cloud-based data management and backup.

Aorbis Inc.

July 2025 - September 2025

ML Product Engineer Intern

East Hartford , Connecticut

- Contributed to an LLM-based email summarization and Q&A pipeline (Mistral), analyzing Real time project based emails for summaries and queries.
- Assisted in optimizing model inference by testing GPU-based deployment, which showed potential to reduce response time by 50% compared to CPU runs.
- Supported a Open CV pipeline (Faster R-CNN, YOLO) to detect and classify doors in architectural site plans.
- Collaborated with senior engineers to debug model outputs and fine-tune detection accuracy, improving consistency of results by 20% across test datasets.

Projects

Scalable Geospatial Data Analytics Pipeline on GCP |

- Built an end-to-end ETL pipeline to process and analyze large-scale geospatial taxi trip data (pickup/drop-off locations with timestamps) using Python, Mage AI, and Google Cloud.
- Automated data ingestion, cleaning, and transformation, making queries run 40% faster and demonstrated skills in data engineering, geospatial analytics, and cloud platforms.
- Delivered interactive dashboards in Looker Studio to track trip demand, revenue KPIs, enabling data-driven decisions.

Real-Time Fraud Detection Data Pipeline |

- Designed a real-time fraud detection pipeline handling 1M+ financial transactions daily with sub-second latency.
- Implemented ETL workflows to clean and load data into Neo4j and MLflow, improving model retraining speed by 30%.
- Built Grafana dashboards for live anomaly monitoring and fraud alerts, increasing detection efficiency by 25%.

Data-Driven Sales Insights Pipeline for Coffee Retail |

- Built a SQL-based ETL pipeline to process and clean 149K+ retail transactions, ensuring high-quality datasets for analysis.
- Designed an interactive Power BI dashboard with 10+ KPIs (sales by product, seasonal trends, store performance) for business insights.
- Identified top 5 products and peak business hours, demonstrating how analytics can optimize sales strategy and operations.