

Muhammad Munawwar Anwar

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EDUCATION

Emory University Atlanta, GA
Master of Science in Computer Science | GPA: 4.00/4.00 August 2024 - December 2025

Habib University Karachi, Pakistan
Bachelor of Science in Computer Science (Minor: Mathematics) | GPA: 3.85/4.00 August 2018 - June 2022

PROFESSIONAL EXPERIENCE

ABM Industries Atlanta, GA
Data Analyst Intern June 2025 - August 2025

- Migrated 2 FP&A Oracle Fusion queries to Azure SQL, cutting runtime from 60 to 30 minutes and saving 3 hours per close cycle, ensuring on-time financial reporting through PL/SQL-to-T-SQL conversion and indexing optimization.
- Validated 200K financial records, reducing mismatches from 12K to 1.5K and improving executive reporting accuracy using Python validation scripts and SQL-based reconciliation logic during Oracle-to-Azure SQL migration.
- Transformed 30 SOP documents into 735 Q&A pairs, reducing policy lookup time from 30 minutes to under 5 minutes and saving 20 hours monthly through automated parsing and Azure OpenAI prompt engineering.

Habib University Karachi, Pakistan
Research Assistant - Computer Science July 2022 - July 2024

- Constructed 34 Python and SQL lab assignments, reducing grading time from 15 to 10 minutes per submission and cutting TA workload from 8 to 4 hours weekly for 100+ students using reusable rubrics.
- Facilitated weekly 3-hour labs for 30+ students, reducing completion time from 120 to 90 minutes and enabling 80%+ in-session completion through hands-on instruction and personalized debugging support.
- Mentored 10 Deep Learning research projects, producing 2 IEEE conference acceptances and establishing reusable research pipeline through weekly code reviews and methodology guidance.

Ismail Industries Karachi, Pakistan
IT Intern July 2021 - August 2021

- Streamlined security log analysis, reducing alert review time from 5 hours to 1 hour and enabling same-day threat identification by converting 100K+ daily Trend Micro logs into structured CSVs using Python automation.
- Implemented Python ETL pipeline, reducing investigation time from 80 to 30 minutes and enabling consistent security threat analysis by loading validated CSV data into SQL Server.
- Generated Power BI dashboard, reducing reporting time from 2 hours to 10 minutes and enabling IT leadership to implement timely policy updates using SQL Server data and interactive visualizations.

PROJECTS

Automated Weather ETL Pipeline December 2025 - January 2026
• Automated weather data collection, replacing 1.5 hours of daily manual work and enabling real-time temperature monitoring by ingesting API data every 10 minutes into SQLite across 5 cities using Python and GitHub Actions.

NYC Taxi Analytics Platform August 2025 - December 2025
• Engineered PostgreSQL analytics platform reducing fare and demand analysis from 7 hours to 15 minutes by ingesting 20M+ taxi records through Parquet ETL, Flask API, and React dashboard.

Gender Wage Gap Analysis Platform January 2025 - April 2025
• Designed gender wage gap analysis platform, reducing analysis time from 1.5 hours to 15 minutes by processing 344K records and enabling disparity exploration by age, education, and occupation using Python and D3.js.

TECHNICAL SKILLS

Languages: SQL, Python, R

Python Libraries: Pandas, NumPy, Matplotlib

Data Visualization: Power BI, Tableau, Looker, Plotly, D3.js

Analytics: Excel (Advanced), KPI Development, Data Validation

Data Engineering: ETL / ELT Pipelines, Data Modeling, Data Warehousing, API Integration

Databases: SQL Server, MySQL, PostgreSQL, SQLite, Snowflake, BigQuery, Azure, AWS, GCP

Statistics: Statistical Analysis, Regression Analysis, Forecasting, Hypothesis Testing, A/B Testing

Machine Learning: Predictive Modeling, Classification, Clustering, Data Mining

Tools: Git, GitHub Actions, Jupyter Notebook, Azure OpenAI