

Neha Inder Malviya

malviyan@rider.edu • linkedin.com/in/nehamalviya0204 • nehamalviya.com

SKILLS

Data Analysis & Modeling: Python (Pandas, NumPy, Scikit-learn), R (ARIMA, K-Means, Regression), SQL (Advanced, Certified), Statistical Analysis, Predictive Analytics, Pattern Detection, Trend Identification
Visualization & Reporting: Tableau (BI Analyst Certified), Power BI (DAX), Plotly, Streamlit — built executive dashboards and self-service analytics from scratch; Excel Advanced (Certified), PowerPoint
Data Engineering: ETL Pipeline Development, Large Dataset Processing (7M+ rows), Data Cleaning & Transformation, Multi-Source Integration, Databricks AI/BI (Certified), AWS AI Practitioner, Git, SQLite
Business & Communication: KPI Framework Design, Executive Storytelling, Stakeholder Requirements Gathering, Cross-Functional Collaboration, Data Governance & SOPs, Process Documentation

WORK EXPERIENCE & INTERNSHIPS

CPA4 Tax and Accounting Services PC — Data Analyst Intern Mar 2026 – Apr 2026
Kendall Park, NJ | Full-Time | Data analytics, automated reporting pipelines, and KPI dashboards across 10+ client accounts

- Designed and built an automated Python ETL pipeline integrating financial data across 3 upstream systems for 10+ client accounts — enforced data quality standards at each transformation stage and reduced manual reporting effort by 30%.
- Developed Power BI KPI dashboards from scratch translating multi-source financial data into executive-ready visualisations — enabled leadership to monitor budget performance and variance trends without technical expertise.
- Conducted root cause analysis on data discrepancies across 3 interdependent systems — identified structural quality issues, implemented corrective solutions, and documented SOPs to prevent recurrence.
- Delivered recurring and ad hoc analyses for client management — collected, cleansed, and aggregated multi-source data, translating findings into clear narratives for non-technical decision-makers.

Rider University — Student Office Assistant, Residential Life Jul 2025 – Present
Lawrence, NJ | Part-Time (20 hrs/wk) | Database management, data integrity auditing, and operational reporting

- Maintained and audited a 500+ record operational database weekly — enforced data entry standards across 3+ departments, achieving 100% discrepancy detection before each reporting cycle with zero downstream errors.
- Managed 20+ ad hoc data and reporting requests weekly — collected, validated, and delivered accurate outputs to university administrators under recurring deadline pressure.

Rider University — Research Assistant, NSF-Funded Climate Research Oct 2025 – Jan 2026
Lawrence, NJ | Part-Time (15 hrs/wk) | Statistical pipeline development and quantitative data analysis

- Rebuilt a 4-module statistical analysis pipeline from MATLAB to R — validated all outputs across 100+ specimens and delivered fully reproducible workflows with documentation meeting NSF research standards.
- Applied statistical methods to multi-year time-series datasets with data quality controls at every stage — produced validated analytical findings for faculty review.

PROJECTS

Capital Health ER Analytics — Predictive Modelling & Executive Dashboard Reporting Rider University | Grade: A

- Built an end-to-end predictive analytics pipeline across 4 hospital sites — applied ARIMA time-series forecasting and K-Means clustering in R to model patient demand patterns, then delivered Tableau executive dashboards to hospital leadership enabling data-driven staffing and operational decisions.
- Identified an insurance coverage gap affecting ~872,000 NJ residents through cross-site data analysis — packaged the finding with quantified impact as a formal strategic recommendation to clinical leadership.
- Conducted sentiment analysis on 500+ patient reviews — extracted complaint pattern trends by site and synthesised qualitative and quantitative findings into 3 actionable management-ready recommendations.

HR Employee Analytics Dashboard — Self-Service BI Platform Python · SQL · SQLite · Streamlit · Plotly

- Built a full analytics platform from scratch — designed SQLite schema, authored 5 SQL queries tracking workforce KPIs, and deployed a live Streamlit dashboard with 8+ interactive visualisations and sidebar filters for non-technical leadership audiences.
- Detected that overtime-mandatory teams had 2x the attrition rate — surfaced through multi-factor SQL pattern analysis and packaged as an executive summary with trend visualisations and actionable recommendations.
- Established data governance standards and documented the full pipeline — enabling non-technical stakeholders to maintain and operate the reporting system independently.

ASA DataFest 2026 — Large-Scale Healthcare Data Analysis (Solo) 7M+ Rows | Stormont Vail Health | 48 Hours

- Independently built a full ETL and analytics pipeline for a 7M+ row, 7-file real-world healthcare dataset in 48 hours — applied quality validation at 5+ stages, produced a staffing demand model and social-needs gap analysis, and presented findings to an industry panel.

EDUCATION & CREDENTIALS

Rider University — BSBA, Business Analytics | Supply Chain Concentration Lawrence, NJ | May 2026
GPA: 3.8 | Summa Cum Laude | Dean's List All Semesters | ASA DataFest 1st Place (2025)
Certifications: Databricks AI/BI (Apr 2026) • AWS AI Practitioner • Tableau BI Analyst (Jan 2026) • Excel Advanced (Jun 2025) • SQL for Data Analysis (Jan 2025)

POSITIONS OF RESPONSIBILITY

Rider University — Resident Assistant, Hill Hall Jan 2026 – Present

- Manage a 30+ student residential floor — plan and deliver 4+ community programs per semester, conduct weekly one-on-ones, and submit formal operational reports to Residential Life administration each cycle.