Sejal Neve

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SUMMARY

Healthcare and Clinical Data Analyst with an M.S. in Health Information Technology (UMBC, 2026) and a pharmacy sciences background. Experienced in SQL, Python, and Tableau, with hands-on work in clinical trial data standardization (CDISC SDTM/ADaM), bioequivalence analysis, safety data coding, predictive modeling, and dashboard reporting using clinical and claims datasets.

TECHNICAL SKILLS

- **Programming & Analytics:** Python (pandas, NumPy, SciPy, Matplotlib, scikit-learn), SQL (joins, CTEs, window functions, subqueries), Java
- **Visualization & Reporting:** Tableau, Microsoft Excel (PivotTables, advanced formulas, charts), KPI reporting
- **Clinical & Health Data:** CDISC (SDTM, ADaM), EDC Systems, MedDRA, EHR Systems, HL7, FHIR, ICD-10/CPT Coding, HIPAA/HITECH, ALCOA+, CMS Medicare datasets, CDC WONDER
- **Methods:** Exploratory data analysis, feature engineering, classification modeling, bioequivalence and pharmacokinetic analysis, data validation, trend analysis

PROFESSIONAL EXPERIENCE

Clinical Trial Data Analyst Jan 2023 - May 2024

Synergen Bio Pvt. Ltd. | *Pune, India*

- Mapped raw EDC data into CDISC SDTM and ADaM compliant datasets using Python (pandas) across 5 Phase I/II studies, supporting regulatory-ready submission datasets for DCGI and global filings.
- Wrote Python scripts (NumPy, SciPy) to calculate Cmax, Tmax, and AUC and test bioequivalence against reference formulations using 90% confidence intervals for 5 studies.
- Developed SQL validation checks to flag data discrepancies (such as adverse event onset dates before dosing) across 600+ queries, reducing database lock time by 22%.
- Built SQL views with CTEs and window functions to report dropout patterns, screen-failure ratios, and protocol deviations, delivered as dashboards to Principal Investigators.
- Automated AE/SAE data cleaning and MedDRA coding on 1,500+ safety records, improving coding efficiency by 18%; reviewed audit trails to support ALCOA+ and Schedule Y compliance.

Data & Operations Intern Jan 2022 - Jun 2022

Muskurahat Foundation (Nonprofit) | *Pune, India*

- Built structured program databases supporting outcome evaluation across 5+ community outreach initiatives; tracked 10+ KPIs and generated regular activity reports for donor presentations.
- Coordinated cross-functional data collection and logistics, improving accuracy and efficiency of program reporting.

PROJECTS

Predicting Hospital Readmissions - Diabetic Patients 2026

UMBC Graduate Capstone | *Remote*

- Analyzed 100,000+ patient records to identify drivers of 30-day readmissions using exploratory data analysis, feature engineering, and classification models (Random Forest, Logistic Regression).
- Identified high-impact clinical predictors (prior admissions, medication changes, comorbidities) and delivered risk stratification recommendations to support early clinical intervention.

Healthcare Cost Analysis & Optimization Dashboard 2026

Independent Portfolio Project | *United States (Remote)*

- Designed and executed SQL queries (joins, aggregations, subqueries) across multi-dimensional healthcare cost and utilization datasets to surface trends and cost drivers.
- Built an interactive Tableau dashboard highlighting high-utilization patient segments, optimization opportunities, and cost trends for stakeholder review.

CMS Medicare Data Analysis - Readmission & Cost Drivers 2026

Independent Portfolio Project | *United States (Remote)*

- Downloaded and cleaned CMS Open Payments and Medicare Part B datasets using Python (pandas), applying HIPAA-compliant de-identification practices.
- Produced a written findings report with visualizations comparing cost and utilization patterns across provider specialties and states.

Electrospun Nanofiber-Based Ocular Insert for Sustained Drug Release 2024

Poona College of Pharmacy | *Pune, India*

- Developed drug-loaded ocular inserts as a sustained-release alternative to eye drops after cataract surgery, using a BCS Class IV non-steroidal anti-inflammatory drug to reduce eye redness and inflammation.
- Fabricated and compared 10 electrospinning batches, analyzing fiber characteristics and drug release (UV spectroscopy, pH meter, Sotax flow-through cell) to identify the most effective formulation.

EDUCATION

M.S., Health Information Technology Aug 2024 - May 2026

University of Maryland, Baltimore County (UMBC) | *Baltimore, MD*

- Relevant coursework: Health Data Analytics, Database Systems, Health Informatics, Statistics for Health Sciences

Bachelor of Pharmacy Aug 2020 - May 2024

Poona College of Pharmacy, Bharati Vidyapeeth University | *Pune, India*

- Clinical sciences foundation supporting understanding of healthcare data context

CERTIFICATIONS

- Google Data Analysis with Python Specialization - Coursera (2026)
- HIPAA and HITECH for Business Associates
- Biomedical Responsible Conduct of Research
- Introduction to Java - Coding Ninjas (Excellence Award)