

**Mohan Venkata Pavan Sai Teja Kattiboyina**  
**Biostatistician | Statistical Analyst | Healthcare Research & Data Analytics**  
R | Python | SAS | SQL | Tableau | Statistical Modeling | Manuscript Preparation  
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## SUMMARY

Biostatistician and healthcare data analytics professional with experience in statistical analysis plan development, SQL and Python analytics, dashboard development, and peer-reviewed manuscript preparation. Co-authored a faculty-led manuscript under peer review applying regression modeling and reproducible code workflows to healthcare datasets. Former Samsung SDS BI Developer on SAMS, delivering sales performance dashboards, analytical queries, and data governance — reducing reporting workload 30% and preprocessing overhead 20%.

## RESEARCH EXPERIENCE

**Healthcare Operations Research Associate (Co-Author)** Oct 2025 – Present  
*UT Dallas – Optimization & Scheduling Lab* Faculty-led manuscript under peer review applying statistical analysis plans, Python and SQL analytics, and reproducible workflows to 3+ healthcare operational and demand datasets across a 3-member research team.

- Developed statistical analysis plans (SAPs) in collaboration with faculty investigators, applying regression-based modeling (linear and logistic) across 13+ model assumptions to evaluate population-level healthcare demand patterns.
- Engineered analytical queries and data transformations using Python and SQL — mapped 3+ demand sources, API fields, and transformation rules achieving 95%+ variable-dictionary completion with version-controlled code.
- Constructed 5+ repeatable analytical processes and data assets, capturing business requirements, data definitions, and methodologies to streamline efficiency and strengthen governance.
- Compiled tables, figures, and summary reports communicating trends and performance metrics to both technical and non-technical stakeholders — contributed to peer-reviewed manuscript submission.
- Maintained technical documentation of 3+ analytical processes, conducted literature reviews of 20+ peer-reviewed papers, and supported grant and protocol development activities.

## INDUSTRY EXPERIENCE

**Business Intelligence Developer – SAMS** Jul 2022 – Nov 2023  
*Samsung SDS* BI developer on the Sales Analytics Management System (SAMS) — delivered sales performance dashboards, KPI reporting, and data pipelines supporting national retail operations across 5+ business units.

- Designed and delivered sales performance dashboards and KPI reports in QlikView and Tableau for the SAMS platform, communicating revenue trends, utilization metrics, and financial insights to business and operational stakeholders across national operations.
- Authored advanced SQL queries, views, and data transformations on the SAMS enterprise data warehouse, demonstrating database design principles and enabling self-service analytics and financial reporting across 5+ business units — cutting preprocessing time 20%.
- Standardized repeatable ETL pipelines and data assets on SAMS — codifying hierarchy mapping, data definitions, and transformation logic to reduce reporting workload 30% and enforce data accuracy.
- Executed root cause analysis on SAMS data anomalies, validated data mappings, and enforced QA/QC standards; closed 100% of identified integrity gaps ensuring data completeness.
- Streamlined SAMS data entry through standardized preprocessing templates, reducing manual input errors by 25% across 10+ operational reporting workflows.

**Software Development Engineer Intern** Feb 2022 – Jun 2022  
*Samsung SDS* Technical internship applying software application development, algorithmic coding, and documentation — exceeded expectations, resulting in conversion to full-time BI Developer role on SAMS.

## SELECTED PROJECTS

**AI Nutrition Companion – Population Health ML & Dashboard** Apr 2026 – Present

- Developed Python and SQL-based ML classification models and data visualizations across 20+ population health variables; launched an interactive web application dashboard delivering health insights to end users.

**Brain Tumor Detection – R-Based Image Segmentation** Apr 2025 – Jun 2025

- Applied R-based image preprocessing and segmentation workflows across 500+ medical images, gaining direct exposure to clinical healthcare data analysis and high-dimensional biomedical data.

**Consumer Market Analytics – SAS Statistical Programming** Jan 2025 – May 2025

- Authored SAS programs for probabilistic analysis, hypothesis testing, and regression-based price elasticity modeling on a 4-year \$50B market dataset across 10+ experiments.

**Transit Operations Structured Data Study** Jan 2024 – May 2024

- Constructed ETL pipelines with Python, Pandas, and NumPy across 7+ longitudinal datasets; performed statistical analysis and data cleaning, raising system efficiency 10% and reducing wait times 15%.

## EDUCATION

**M.S. Business Analytics & Artificial Intelligence** Aug 2024 – May 2026  
*The University of Texas at Dallas*

**B.Tech, Electronics & Communication Engineering** Aug 2018 – Jun 2022  
*Indian Institute of Information Technology, Nagpur*

## TECHNICAL & RESEARCH SKILLS

**Programming:** R, SAS, Python, SQL, STATA, Git, ETL, Tableau, QlikView | **Methods:** Regression, SAPs, Statistical Modeling, Data Visualization | **Domain:** Healthcare Analytics, Dashboard Development, Data Governance, Manuscript Preparation, QA/QC | **Certs:** Intermediate R, Python for Healthcare, MySQL, Google Analytics