

NISHI SHETH

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🌐 [LinkedIn](#)

🐙 [Github](#)

Education

Northeastern University

Master of Science in Health Informatics

Sumandeep Vidyapeeth

Doctor of Pharmacy

Sep 2023 – May 2025

Boston, MA

Aug 2017 – May 2023

Vadodara, India

Experience

Quantum Pulse Consulting

Sep 2024 – Dec 2024

Data Scientist

Detroit, MI

- Led AWS infrastructure migration, utilizing EC2, S3, and RDS to improve availability and disaster recovery, enhancing system performance for 100+ users.
- Built a responsive front-end with React, improving user interaction and boosting operational efficiency by 27% for a high-demand client.
- Managed full-stack integration between React, Django APIs, and PostgreSQL, increasing system reliability and customer satisfaction by 15%.
- Optimized PostgreSQL database, reducing data retrieval times by 17% for a system managing millions of daily records.
- Designed and implemented APIs with Django, enhancing portal performance and strengthening data security, resulting in a 23% improvement in system resilience for Kymani Management Group.

Dartmouth Medical Center

May 2024 – Aug 2024

Data Analyst

Lebanon, NH

- Implemented machine learning models like KNN and SVM using R, increasing tumor classification accuracy by 15% to support cancer diagnosis.
- Managed and optimized large datasets using SQL from TCGA and TCIA, reducing query execution time by 25% for faster cancer research analysis.
- Integrated and standardized diverse data sources with AWS Glue and Lambda, reducing manual data handling by 40% and streamlining data processing workflows.
- Leveraged AWS services (EC2 and S3) for scalable computing and storage, efficiently handling over 50 terabytes of imaging data for high-performance medical research.
- Performed EDA in R using ggplot2 and dplyr, identifying key patterns and anomalies to enhance data cleaning and feature selection for better model performance.

Clinfotics LLP

Aug 2021 - Jun 2022

Clinical Trial Assistant

Ahmedabad, India

- Analyzed clinical trial data using statistical software R, generating reports and insights to assess treatment efficacy and ensure accurate reporting of trial outcomes.
- Conducted data validation and quality checks to ensure accuracy, consistency, and regulatory compliance in clinical trial datasets.
- Collaborated with clinical research teams, ensuring proper handling and storage of trial data and biological samples in compliance with regulatory and ethical guidelines.
- Monitored and tracked trial progress using clinical trial management systems (CTMS), ensuring timely data entry, proper documentation, and adherence to trial timelines.

Projects

Crime Trend Analysis in Boston | *SQL, Tableau, GitHub* | [Github Link](#)

- Developed interactive Tableau dashboards for crime data analysis, incorporating geospatial mapping, trend analysis, and comparative studies to support law enforcement in crime prevention and resource management strategies.

Hospital Quality Analysis using R | *R, Github* | [Github Link](#)

- Developed an end-to-end R project encompassing multiple analyses, including hospital quality, heart rate trends, pollution levels, COVID-19 visualization, and statistical inference, focusing on data cleaning, visualization, and actionable insights across diverse domains.

Heart Disease Prediction using Python | *Python, Jupyter notebook, GitHub* | [Github Link](#)

- Developed a heart disease prediction system using machine learning, leveraging algorithms such as Random Forest, SVM, Logistic Regression, and Neural Networks; achieved 95% accuracy with Random Forest, enabling effective binary classification of heart disease presence.

Technical Skills

Languages: Python, R, SQL, PostgreSQL, Flutter, HTML/CSS, JavaScript

Developer Tools: Tableau, Excel, VS Code, Power Bi, Figma.

Technologies/Frameworks: Linux, AWS, GitHub, Django, React.