

SHRUTI SHAH

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SUMMARY

Working around healthcare data with 3+ years of clinical experience in healthcare, pursued a master’s in health informatics at Northeastern University in Boston. Opportunities to leverage the power of this data to raise the effectiveness, quality, and equity of healthcare excites me. Capable of collecting, cleaning, modeling, analyzing, and transforming data into understandable, goal-driven reports for ongoing innovation and progress. Gained significant clinical expertise and comprehension of Epic, Cerner, ICD-10, FHIR, SNOMED CT, and HIPAA through working as a homeopathic doctor in the medical field.

EDUCATION

<b>Master of Science in Health Informatics</b> Northeastern University, Boston, MA (GPA 3.8)	<b>Sept’21- Apr’23</b>
<b>Bachelor of Homeopathic Medicine and Surgery</b> Smt. Chandaben Mohanbhai Patel Homeopathic Medical College, Mumbai, India (GPA 3.9)	<b>Sept’15-Feb’20</b>

SKILLS

**Core Competencies:** Data Analysis, Business Analysis, Business Intelligence Reporting, Data Visualization, MS Office, Machine Learning, Reports, Data Mining, Database Designing & Management, Project Management, Agile Methodologies (SCRUM).  
**Programming Language:** SQL, R Programming, Python, SAS, SPSS.  
**Data Visualization and Tools:** Tableau, PowerBI, MS Excel, RStudio, Alteryx, Qlik.  
**Database Framework:** MYSQL, SQL Server, Oracle SQL, SQL Workbench.

WORK EXPERIENCE

<b>HouseCall VR, Boston, MA.</b> <i>Healthcare data analyst and project mapping</i> <ul style="list-style-type: none"><li>Identified 7 deliverable plans and datasets using ProofHub, which were required to meet project goals and objectives.</li><li>Performed data cleaning on the datasets with approx. 10,000 columns using MS Excel to facilitate better understanding of the data.</li><li>Analyzed the needs of the stakeholders and derived appropriate information from the datasets by running queries using MYSQL, to identify successful outcomes, insights, and provide future recommendations.</li><li>Provided detailed project status updates to stakeholders and executive management and translated statistical data into understandable terms for line managers using graphs in Tableau.</li><li>Coordinated with cross-functional teams to resolve project issues, mitigate risks, and developed strategic project plans to meet top 3 business objectives.</li><li>Proficient in: MS Excel, MYSQL, Tableau.</li></ul>	<b>Jan’23- Present</b>
<b>Northeastern University, Boston, MA.</b> <i>Teaching Assistant</i> <ul style="list-style-type: none"><li>Led a class of 25 students and organized group discussions, in-class debates as part of learning program.</li><li>Mediated with 6 professors in planning course material and student development plans.</li><li>Improved students' grades by 35% through facilitation of effective solutions and guided students in report writing.</li></ul>	<b>Sept’21- Present</b>
<b>Zeno Health, Mumbai, India.</b> <i>Healthcare Data Analyst</i> <ul style="list-style-type: none"><li>Analyzed data from 6 client organizations with approximately 9000 columned datasets each, performed data cleaning using MS Excel.</li><li>Assessed market trends and technology by running SQL queries on the data to improve clients' experience with CRM software.</li><li>Developed and revised analytical test methods, as well as qualification protocols and reports increasing the efficiency by 15%.</li><li>Generated dashboards with interactive graphs for the stakeholders to understand the complex data using PowerBI.</li><li>Collaborated with finance team to identify revenue opportunities and gain better understanding of the business.</li><li>Designed cost-estimation spreadsheets for future custom projects using MS Excel.</li><li>Proficient in: MS Excel, MYSQL, and PowerBI.</li></ul>	<b>Feb’20-Jan’21</b>

PROJECTS

<b>Patient Attrition Analyzing and Prediction</b> <ul style="list-style-type: none"><li>Analyzed 10-year patient data set to predict patient attrition and identify important factors using data analysis.</li><li>Achieved data wrangling and cleaning over a 10000 columns dataset using Microsoft Excel.</li><li>Explored data and generated visualizations in RStudio (bar plots, pie chart, correlation matrix, box plots).</li><li>Implemented machine learning algorithms (Regression, Classification, Random Forest, KNN, Neural nets) to find the best model with accuracy &gt;80%.</li><li>Proficient in: MS Excel, MYSQL, R Programming Language, Machine Learning, Python.</li></ul>	<b>Sept’22-Oct’22</b>
<b>Supply Chain Prediction</b> <ul style="list-style-type: none"><li>Formulated business model database and entity relationship diagram for hospital inventory management.</li><li>Collected 3 years of historical data, envisioned database in MYSQL and MongoDB shell to maintain inventory based on demand.</li><li>Performed SQL queries to identify problematic areas in the business model.</li><li>Developed Tableau reports showing 40% reduction in drug thefts and clinicians' burnouts through inventory tracking.</li><li>Proficient in: MYSQL, Tableau, and MongoDB Shell.</li></ul>	<b>March’22</b>

- Teamed with 2 classmates to clean 600 occurrence breast cancer data set in R Programming language.
- Derived analytical conclusions using ggplot2 and shiny libraries to compare symptoms of Malignant/Benign Cancer.
- Conducted statistical analysis and constructed prediction model showing 45% prevalence of Malignant tumors over Benign tumors.
- Concluded the analysis by creating interactive dashboards and reports in Tableau.
- Proficient in: R Programming Language, MYSQL, and Tableau.