

EDUCATION

Northeastern University, Boston, MA Master of Science in Health Informatics Courses: Intensive Foundations of Computer Science (Python), Data Structures, Introduction to Health Informatics, Creation of Medical Knowledge, Database Design, American Healthcare System, Project Management, Computational Statistics, Patient Engagement Analytics and Informatics, Data Management and Health Informatics	Jan 2020 – May 2022
Sudha Rustagi Dental College (SRDC), Haryana, India Bachelor of Dental Surgery	2003-2007

TECHNICAL KNOWLEDGE

Programming Languages:	Python, R, Shell Scripting, SQL (T-SQL and Post-Gre), Java
Tools and Databases:	Git, MSSMS, Snowflake, RStudio, Power BI, DBT, AWS EMR, Apache Spark, MS Azure Synapse
Skills:	Excel, Statistics, MS Office, Agile, Scrum, Health Data standards, Claims/Medical data, Project & Product Management, Machine Learning Regression Models
Data Recording:	Electronic Medical Recording System (EMRS)

WORK EXPERIENCE

Data Engineer/Analyst, Ambit RD inc., Full time, Boston, MA <ul style="list-style-type: none">Modeled state of art patient DB. Developed an ETL pipeline & did predictive analysis on neuromuscular diseases using DBT cloud platform.Working on Compile medical and pharmacy claims to do analysis creating patient funnels, Cross sectional and Longitudinal analysis, market mapping, payer Analytics, patient journey, forecasting, physician targeting and segmentation for various consulting and Business development projects using SQL on Snowflake and Microsoft Azure Synapse Analytics from multiple biopharma clients related to Rare Diseases, Drugs and clinical trials.Having experience in leading and planning commercial strategy projects with leverage of healthcare data sources and advanced analytics techniques.	June 2022 – Present
Data Analyst/Data Engineer Co-op, Elevance Health, Boston, MA Worked with the Analytics Product team in the Digital strategy & Operations department on research project on OMOP. <ul style="list-style-type: none">Assessed, merged, and mapped FHIR based healthcare/claims data with OMOP CDM for standardization and Data Analysis to find relevant population cohorts. Used AWS prod environment and created an ETL pipeline for OMOP CDM.Transformed complicated JSON health/ claims data into OMOP based database using Python(pyspark), Hadoop on Cluster AWS EMR to make FHIR resource tables using hive commands to be used for analysis.	June 2021 - December 2021
Graduate Assistant, Northeastern University, Boston, MA (Global Perspectives on Discrimination and Health) and/ (Creation of Medical Knowledge) and/ (The American Healthcare System) <ul style="list-style-type: none">Helped undergraduate and Graduate students with coursework, assignments, facilitating discussions on respective coursework and grading.Worked with Professor John Olawepo on a Systematic Review paper, titled as “Nonpharmacological interventions to prevent Type 2 Diabetes Mellitus after Gestational Diabetes” using PubMed and Cochrane libraries.	January 2021 - May 2022
Hospital Administrator and Business Analyst Associate, Bhagwan Mahavir Hospital, New Delhi, India <ul style="list-style-type: none">Worked with multiple external stakeholders to strengthen the business strategies using data analysis.	April 2018 - April 2019
Children International NGO and Total Dental Solution, New Delhi, India Dental Surgeon, Dental Consultant and Primary Oral Health Coordinator <ul style="list-style-type: none">Planned, advocated, and executed promotive, preventive, advanced Public and Dental health services. Also maintained Health Data on EMRS.	January 2011 - December 2019

PROJECTS

Northeastern University, Boston, MA <ul style="list-style-type: none">Easy Animator Application and Marble Solitaire Game Developed a version of Marble solitaire Board using Java. Used various design patterns like MVC, Factory, Builder, Singleton & Strategy.Connect 4 Game Developed a game where player who makes a set of 4 slots using same color in any direction wins. Used Python’s Turtle graphics module.Database for Travel agency Prepared a normalized MSSQL database for keeping track of all the booking details made through a travel agency using SQL.Project papers<ul style="list-style-type: none">Drafted a paper on Interoperability in Healthcare Information Exchange (HIE) and role of Data Standards like HL7, FHIR, CDA, Identifier standards, Language standards (SNOMED, LOINC etc.) in accordance with legislative acts like HIPAA, ARRA etc.Penned a detailed report on the Medicare and Medicare Advantage programs, its impact on American population and Recommended solutions to improvise existing policies.Drafted a paper and presentation on the impacts and success of Value Based Incentive Care models in healthcare and overtreatment.Project Management Project Plan using Agile Methodology Designed a project management plan for Breegi Scientific’s project on Neonatal Intensive Care Incubator (NICI) using Agile methodology. Constructed work breakdown structure (WBS), project charter, Gantt charts, network diagrams and Critical Path Method (CPM) calculation for scheduling, Stakeholder analysis.Capstone Project on HEOR Data Drafted paper on Health Economics and Outcomes Research (HEOR) implementation on improving healthcare in terms of cost and efficiency.	August 2020 April 2020 November 2020 September 2020 - April 2021 April 2021 April 2022
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