



NAGENDRA SINGH CHAUHAN

Decision Scientist | Analyst Programmer

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NagendraSinghChauhan

SUMMARY

A **Decision Scientist driven by reasoning & intent**, with **3.5 years of industry experience in designing & implementing descriptive, predictive, and prescriptive analytical solutions enabling Fortune 500 Companies from multiple domains in better decision making**. Having in-depth knowledge of data extraction, processing, manipulation, visualization, and Statistical Modeling & Machine Learning.

EXPERIENCE | 3 YEARS & 6 MONTHS

Decision Scientist

Mu Sigma Business Solutions

[Jan, 2019 – Present]

- Collaborated with multiple **leading US Life-Sciences Organizations (Fortune 500)** to provide design, programming, and analytical support to various business units like HECOR (Healthcare Economics and Outcome Research), Medical Affairs, Market Access, and Brand teams during pre-launch & post-launch drug phases and in value-based contracting (VBC)
- Led **multiple advanced analytics projects** and executed 12+ feasibility studies & rapid analysis to generate data-driven insights enabling the client team to solve challenging business problems
- Received **client testimonial for Project Management** and building good relationship & trust in a project with tight deadlines and requiring quick turnarounds
- Org building:** Worked on multiple initiatives to ensure top-notch quality and quicker insight generation:
 - Standardization of business rules, methodologies, and approach to make analysis and programming practice consistent across the team
 - Designed an end-to-end automated process using SQL macros to increase efficiency and minimize the scope of human errors
 - Parallely trained new team members and mentored 10+ new inductees through various knowledge transfer sessions to impart business context & develop their skills in areas of data wrangling, statistics & machine learning

Key Projects

Prediction of Stroke Readmission For Payer/Insurer Negotiations (VBC)

- Key Skills :** Experimental Design, AWS Redshift (SQL), Python, Classification, Random Forest, XGBoost
- Initiated a **pilot engagement** with the clients to leverage machine learning algorithms for predicting patients who are prone to **Stroke Readmission** within 1-, 6-, 12-month post first Stroke event
- Business Stakeholders from Market Access Teams were able to gain insight about stroke re-admissions in favor of client's drug and the results generated were **leveraged by the Market Access team for better payer/insurer negotiations in Value-Based Contracting (VBC)**

Evaluating Risk of Recurrent VTE Using RWD

- Key Skills:** SQL, Python/SAS, Epidemiology, Time-to-Event Analysis
- Evaluated the risk factors and incidence of **Recurrent Venous Thromboembolism (VTE)** in the patients initiating the anticoagulant treatment post their first VTE diagnosis
- Estimated Time-to-Recurrent VTE (event) using **Kaplan-Meier Estimator** and leveraged **Cox Proportional Hazards Model** to assess the association between time-to-Recurrent VTE & other patient characteristics

RWE generation to support Medical Affairs, Pricing and Market Access Team

- Key Skills:** AWS Redshift (SQL), Python, SAS, HEOR Analysis, Cohort Analysis
- Generated **Real World Evidence (RWE)** to **re-establish** the superiority of the client's drug effectiveness in treating Venous Thromboembolism (VTE) by comparing the treatment patterns, healthcare cost, and resource utilization with its competitor drugs
- The results helped multiple client teams in **better negotiations with their respective stakeholders** and also a **jump of USD 240 Million (20%) in revenue of the drug** in the following year

Analyst Programmer

Accenture Solutions

[Sep, 2017 – Dec, 2018]

- Worked extensively on developing & maintaining a Supply Chain Tableau dashboard for a **Global Fortune 500 Retail Giant** to generate essential insights by analyzing & displaying the important KPIs
- This helped the client team in **streamlining fleet management and inventory management** for their huge network of brick-and-mortar stores across the continent and also in **reducing their expenditure by 30% in comparison to previous years**

TECHNICAL SKILLS



Data Wrangling

- Amazon Redshift (SQL)
- Python
- R (analysis)
- SAS (analysis)



Data Visualization

- Tableau
- MS Excel



Statistical Analysis & Machine Learning

- Experimental Design
- Cohort Analysis
- Hypothesis Testing
- Parametric & Non-Parametric Testing
- Survival Analysis
- Predictive Modeling
- Supervised Learning
- Unsupervised Learning



HEOR Analysis

- RWE Data Sources
- Healthcare Cost
- Resource Utilization
- Treatment Patterns
- Epidemiology

STRENGTHS

- Exploratory Data Analysis (EDA)
- Business Communication
- Project Management
- Business Intelligence
- Design Thinking
- Problem Solving
- Data Analysis
- A/B Testing

EDUCATION & MOOCS

B.Tech - Information Technology
GGSIU, New Delhi

2013 – 2017 81.3%

Higher Secondary (CBSE)

March, 2013 87.2%

Senior Secondary (CBSE)

March, 2011 89.3%

Machine Learning

DataCamp

2020