

# Meet Patel

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## Summary

A budding data analyst with a solid foundation in analytics and frontend development, passionate about generating impactful insights and driving product development through design, collaboration and continuous learning

## Education

**Stevens Institute of Technology, New Jersey, US**

**May 2024**

*Master of Science in Data Science – Department of Mathematical Sciences*

*GPA- 3.67/4*

**NMIMS University, Mumbai, India**

**August 2020**

*Bachelor of Technology in Information Technology*

## Technical Skills

Languages: Python, SQL, JavaScript, R, Typescript

Web Framework/Tools: Bootstrap, Angular, jQuery, Figma, HTML5, CSS, NodeJS

Data Science Tools: NumPy, Pandas, Sklearn, TensorFlow, Selenium, Statsmodels, Matplotlib, Seaborn

Other: Tableau, SAS, PostgreSQL, MongoDB, Git, AWS, MS Excel, MS Office

## Projects

**Stevens Institute of Technology**

**New Jersey, US**

***Patient Satisfaction Scores – Healthcare Data Analyst | (Tableau Viz)***

*May 2024*

- Conducted comprehensive analysis of patient satisfaction scores using the Hospital CAHPS dataset
- Cleaned and transformed large datasets with PostgreSQL, reducing data inconsistencies by 30% ensuring data integrity
- Developed dynamic and interactive Tableau visualizations, implemented advanced features such as filters, parameters, and calculated fields to uncover actionable insights

***Time Series Analysis on Stock and Sales Dataset | (Github) (Report)***

*December 2023*

- Applied Box-Jenkins methodology to analyze seasonal and non-seasonal trends using tseries library in R on financial data
- Utilized AlphaVantage for stock data acquisition and fitted an ARIMA model to produce 3-day forecasts
- Performed seasonal adjustments on sales data, and fitted SARIMA model for 2-year sales projection with MAPE of 11.6%

***People Analytics Tableau Dashboard | (Tableau Viz)***

*May 2024*

- Developed a customizable HR dashboard integrating advanced multilevel charts for detailed employee analysis on Tableau
- Enhanced user experience with custom calculations, multiple dashboards and interactive elements, resulting in streamlined decision making for HR managers

***Merck Datathon***

*May 2023*

- Led a team of 3 to evaluate admission triaging processes at substance abuse facilities
- Wrangled data to conduct logistic regression and survival analysis for treatment success across vulnerable populations
- Communicated patterns across 5 US regions through visualizations to recommend improvement areas in triaging processes

***Statistical Analysis to Predict Loan Defaulters | (Github)***

*April 2023*

- Analyzed Deloitte dataset using several statistical methods to predict loan defaulters with statsmodels and sciPy
- Executed over-sampling on imbalanced data using SMOTE and selected 10 features by applying Mutual Information
- Augmented and deployed Random Forest by hyperparameter tuning, resulting in a weighted average F1 score of 0.81

***Bioactivity Prediction to identify drug discovery lead | (Github) (Demo)***

*April 2023*

- Procured and curated single protein data from ChEMBL Database using RDKit and pandas for bioactivity prediction
- Implemented a supervised machine learning model yielding R-square of 0.68 and Mean Square Error of 0.55
- Deployed the model online via Streamlit, enabling seamless access and interaction with the predictive tool

## Work Experience

**Freelancing**

**Surat, India**

***Frontend Developer***

*October 2020 - June 2022*

- Constructed ERP web application by pioneering AngularJS, crafting 42 pages of functionalities and design
- Leveraged Figma to showcase wireframe designs improving client communication and visual representation of concepts
- Redesigned packaging firm's website, leading to a remarkable 44% increase in user engagement enhancing user experience
- Conducted A/B testing on firm's landing page using Google Optimize, resulting in a significant 23% boost in conversion rate
- Developed over 12 high-quality Bootstrap templates for consumer services clients, ensuring consistent effectiveness