

Mihir Patel

[Data Science Portfolio](#) | patelmihr9199@gmail.com | (540) 922-2378 | Blacksburg, VA

EDUCATION

Virginia Tech

B.Sc. in Computational Modeling and Data Analytics
Minor in Statistics and Mathematics

Blacksburg, VA
Graduation: May 2023
GPA: 3.77/4.00
Dean's List: 7/7 semesters

PROFESSIONAL EXPERIENCE

Research Assistant

Virginia Tech, Mathematics Department

September 2022 – Present

Blacksburg, VA

- Utilizing MATLAB DLTdv8 to track the movement of over **317** bats, generating a 3D point for each bat in flight, and contributing to the analysis of bat behavior and flight patterns.

Founder, Chief Technology Officer

Eufinity

March 2021 – Present

Gainesville, FL

- Hired** and **managed** more than **75 interns** within two months of inaugurating the startup which boosted the development process in the pre-seeding stage and achieved the goals one month prior to the deadline.
- Introduced** Google Analytics and **expanded** the IT team to improvise website performance leading to 15% more interaction than before by understanding the audience's past behavior and developing impactful content.
- Established** and **implemented** strategies to prioritize tasks and enhance team efficiency by analyzing workflow through JIRA and increased the intern performance by 2x.

Digital Production Intern

Fingerpaint

June 2022 – August 2022

Saratoga Springs, NY

- Successfully **administered** and **supervised** the JIRA Scrum board, providing crucial information to the Data Engineering Team and optimizing the workflow to generate time for targeted work.
- Coordinated** with senior team leads to sort out the priorities of the data team and **created** strategies that aid the team in successful project delivery.
- Collaborated** with the Data Analyst team to design and test triggers in Google Tag Manager and provided feedback to guarantee accurate data collection on the client's website.
- Participated** in the QA testing process for digital projects to ensure high-quality deliverables for clients.

Data Analyst Intern

Shyamal Real Estate Group

May 2021 – August 2021

Vadodara, GJ, India

- Created** an interactive dashboard using Tableau that provided insights on market trends, which was well received by senior management.
- Assisted** in identifying a new market segment with high potential for investment, resulting in the acquisition of several properties that generated a 20% ROI.
- Utilized** statistical analysis to identify patterns in customer behavior, which led to the development of targeted marketing campaigns resulting in a 10% increase in sales.
- Developed** a report that helped in identifying potential risks and opportunities in the company's portfolio, which was presented to the board of directors and resulted in a strategic decision that benefited the company's financials.
- Collaborated** with cross-functional teams to identify areas for data-driven decision-making and process improvement, resulting in a reduction of operational costs by 5%.

VBA Developer

Virginia Tech, Food Science & Technology Department

January 2020 – August 2022

Blacksburg, VA

- Revised** and **enhanced** the existing Microsoft Excel program code for tracking microbiological sample data, resolving errors to optimize data entry flow.
- Proposed** and **developed** a new project, including a user-friendly interface, and **advanced** to build a website to track samples due to the limitations of Excel.
- Hired** an overseas developer, **optimized** the data tracking process for better user performance, and was eventually selected as a master's thesis.
- Created** multiple Jupyter Notebooks that enabled Dr. Eifert to extract data from the website database using API calls.

PROJECTS

Sentiment Analysis of Animated TV Shows

- Scrapped, combined,** and **cleaned** data collected from multiple websites and stored in pandas DataFrame.
- Utilized** natural language processing technique, sentiment analysis, and evaluated polarity and subjectivity of 5 different animated TV Shows transcripts to distinguish similarities and differences between the tv shows.

Analysis of the Effect of Alcohol on Grades of Math and Portuguese Language Courses

- Performed** initial investigations on data to discover patterns and spot anomalies with the help of summary statistics and graphical representations.
- Trained** and **tested** different **models** to predict students' final grades using supervised machine learning models/algorithms like Decision Tree, Support Vector Machine, and Random Forest and measured the accuracy of these models with confusion matrix and classification report.

TECHNICAL SKILLS

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|----------------------|------------------------|--|-------------------------------------|
| • Data Extraction | • Statistical Analysis | • Database management | • R Studio (ddplyr, ggplot2, knitr) |
| • Data Wrangling | • Pattern Recognition | • Python (NumPy, Pandas, Scikit-learn) | • Java, C, C++, Minitab, JMP |
| • Data Visualization | • Agile Methodologies | • SQL (IBM db2, Microsoft Azure) | • Tableau |

CORE COMPETENCIES

Certificates: Databases and SQL for Data Science with Python by IBM, Google Data Analytics (In Progress)

Languages: English (Fluent), Gujarati (Fluent), Hindi (Fluent)