MIHIR R. PATEL

Blacksburg, VA | patelmihir9199@gmail.com | (540) 922-2378 | Data Science Portfolio

EDUCATION

Virginia Tech   **Blacksburg, VA**
Bachelor of Science in Computational Modeling and Data Analytics   Graduation: May 2023
Minor in Computer Science, Statistics, and Mathematics   GPA: 3.74/4.00
Relevant Coursework: Mathematical Modeling, Data Analytics, and Visualization/Machine Learning   Dean's List: 6/6 semesters

TECHNICAL SKILLS

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

PROFESSIONAL EXPERIENCE

Founder, Chief Technology Officer | Eufinity   **Blacksburg, VA**
                                                                                                      March 2021 – Present

- Hired and managed more than 75 interns within two months of inaugurating the startup.
- Cooperatively working with a co-founder to manage company workflow among 75 interns divided into 6 teams, namely, social media, marketing, design, IT, mental health coaches, and ambassadors.
- Integrating and analyzing workflow through Jira (project management software) for prioritizing projects and enhancing team efficiency.
- Utilizing Google Analytics to track website performance and collect visitor insights to measure the impact of content.
- Monitoring and designing the UI/UX of the app while providing feedback that is vital for the development of the application to the interns.

Research Assistant | Virginia Tech, Mathematics Department   **Blacksburg, VA**
                                                                                                      September 2022 – Present

- Performing stereoscopic tracking with multiple camera views and recording the motion of bats in flight.
- Processing and converting the pictures/videos collected from cameras into numerical data.

Digital Production Intern | Fingerpaint   **Saratoga Springs, NY**
                                                                                                      June 2022 – August 2022

- Managed JIRA Scrum Board to retrieve missing information from tickets to aid the Data Engineering team to expedite workflow.
- Coordinated with Data Team Members to sort team priorities by ensuring tickets are completed in a timely manner.
- Followed up and reported each data team member's priorities to the senior team members for better visibility.
- Shadowed the Digital Analytics Team and created tags/triggers in Google Tag Manager for a client's website.
- Developed an email for a client's email campaign in HTML and CSS, designed to prevent drug abuse of prescribed medications.

VBA Developer | Virginia Tech, Department of Food Science & Technology   **Blacksburg, VA**
                                                                                                      January 2020 – August 2022

- Edited and expanded a Microsoft Excel program that tracks microbiological sample data and sampling plans.
- Designed UI/UX in Adobe XD for a data collection website.
- Coordinated with a developer overseas to build the platform in React Native and Node.js to track microbiological sample data and plans.
- Made API calls to retrieve data from MongoDB database using Python Jupyter Notebook and organized the data into pandas DataFrame.

PROJECTS

Identifying Trends from VT Tweets

- Cleaned the data by removing the stop words from tweets and adding a bag of words column to the existing data frame.
- Identified the trends and distinct events that occurred at Virginia Tech with the help of term frequency-inverse document frequency score and inverse document frequency score.

Web Scrapping

- Scrapped the IMDB website to pull the movies and tv shows data out of HTML and XML files using Python's Beautiful Soup Package.
- Organized the scrapped data into Pandas DataFrame and cleaned the collected information such as description, genre, ratings, total votes, etc.

Analysis of Effect of Alcohol on Grades of Math and Portuguese Language Course

- Performed initial investigations on data to discover patterns and spot anomalies with the help of summary statistics and graphical representations.
- Predicted the final grades using classification methods and concluded that Decision Tree, Support Vector Machines, and Gradient Boosting were the best models compared to Random Forest, and Ada Boosting based on the accuracy measured from confusion matrix and classification report.

CORE COMPETENCIES

Interpersonal: Communication, Storytelling, Learning, Collaboration, Problem-Solving, Leadership
Languages: English (Fluent), Gujarati (Fluent), Hindi (Fluent)
Certificates: Databases and SQL for Data Science with Python by IBM, SQL (Basic & Intermediate) by HackerRank, Python (Basic) by HackerRank

INTERESTS

Data Mining   Topic Modeling   Natural Language Processing   Machine Learning   Artificial Intelligence