Nihal Patel

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EXPERIENCE
Himalaya Chemicals
Data Analyst   **Jan 2020 - Dec 2020**
- Cleaned, Processed, and standardized weekly collected data from different departments of the company using SQL functions and stored in **MySQL** Database.
- Drafted **SQL** queries consisting of **SQL aggregate functions** to generate profit statements for each product using data from different departments of the company.
- Put together stunning and intriguing visualizations in **Tableau** and **Python** for different departments.
- Analyzed row material consumption data and recommended monthly order sizes to the purchasing team.
- Studied previous years of sales and inventory data and gave required production output numbers.
- Optimized plant and equipment utilization using **Queuing Theory** based on the **Continuous Time Markov Processes Model** in Python and NumPy library.

EDUCATION
Stevens Institute of Technology   **Expected- Dec 2022**
Master of Engineering in Engineering Management | Minor: Data Analytics
Gujarat Technological University   **2015 - 2019**
Bachelor of Engineering in Mechanical Engineering

SKILLS
Technical	Python, R, SQL, SAS
Libraries	Pandas, NumPy, Seaborn, BeautifulSoup
Databases	Microsoft SQL Server, Oracle SQL Server, MongoDB (NoSQL)
Visualization Tool	Tableau, Microsoft Power BI, Jira, Tertiary Skill, GitHub, Git-Bash
Tools & Platforms	MS Excel, RStudio, Visual Studio, Anaconda, Jupyter Notebook, PyCharm, AWS, Snowflake

CERTIFICATIONS
Google Certified Data Analyst   **Aug– 2022**
Hackerank SQL (Advanced)   **Sep– 2022**

PROJECTS
US Accident Data Analysis in Python
- Performed Data Preparation and **Cleaning on raw data of US accidents** taken from Kaggle.
- Analyzed and visualized using **Seaborn** data to understand the causes of accidents in different cities.

Covid-19 Data Exploration in SQL
- Analyzed the covid-19 death data and vaccine data using **SQL** in SSMS.
- Gathered meaningful insights into the death rate in all countries, the vaccination rate in all countries, and the highest vaccinated countries.
- Using SQL queries, Visualized the results in **Tableau**.

Web Scraping of Rotten Tomatoes in Python
- Performed web scrapping of Rotten Tomatoes using **BeautifulSoup** and **Requests** and stored all the scrapped data in CSV.
- Classified all the positive and negative comments using Python machine learning library **VEDAR SENTIMENT**.

Aircraft Arrival and Departure Simulation
- Simulated the flight path of an airliner flying between JFK and LAX using the **Monte Carlo Simulation Model** on an Excel Spreadsheet.
- Generated 1000 flight durations with random variables by **Inverse Transform Method** based on historical data.
- Used **VLOOKUP, STRING, MID, LOGICAL,** and **DATE-TIME** Excel functions for designing the simulation.
- Derived the most reliable arrival time at LAX, which will be further utilized by LAX for scheduling airport traffic.