

HIRENKUMAR PATEL

SUMMARY

Data Scientist with a strong analytical background and a Master's in Computer Science. Proficient in data analysis, machine learning, and predictive modeling using Python, R, and SQL. Committed to transforming complex datasets into actionable business insights.

EXPERIENCE

Shift Leader

Dunkin Donuts & Baskin Robbins | Atlanta, GA | August 2021 - June 2023

- Prepared and analyzed shift summary reports, highlighting key performance indicators
- Ensured customer satisfaction by maintaining a clean and organized store environment
- Demonstrated strong problem-solving skills by efficiently resolving customer disputes
- Managed inventory, analyzed sales figures, and identified areas for improvement
- Trained new employees, emphasizing attention to detail and data accuracy in transactions.

PROJECTS

Emotion-Based Music Recommender System

- **Objective:** Develop an application leveraging Natural Language Processing to analyze emotions from text and recommend music tracks based on the detected emotions using the Spotify API.
- **Technologies:** Python, PyTorch, Hugging face Transformers, Flask, Spotipy, Matplotlib, Seaborn.
- **Outcome:** Developed an interactive web app for personalized music recommendations based on emotional tone analysis, enhancing user engagement through data-driven insights.

Online Retail Customer Segmentation

- **Objective:** Identify trends and patterns in customer behavior to inform marketing and sales strategies.
- **Technologies:** Python, Pandas, K-means clustering, Apriori algorithm, RFM analysis, Matplotlib, Seaborn.
- **Outcome:** Segmented customers based on purchasing behavior, identified high-value customers, and derived association rules between product categories.

Video Game Sales Analysis

- **Objective:** Analyze global and regional video game markets to derive data-based business recommendations.
- **Technologies:** Python, Pandas, NumPy, SciPy Stats, Seaborn, Matplotlib.
- **Outcome:** Provided insights into user preferences, market trends, and sales dynamics, aiding strategic decision-making.

Sentiment Analysis on Movie Reviews

- **Objective:** Classify movie reviews based on sentiment using machine learning techniques.
- **Technologies:** Python, NLTK, Multinomial Naive Bayes algorithm.
- **Outcome:** Achieved an accuracy of 86% in classifying reviews, providing insights into public

CONTACT

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PORTFOLIO

- <https://github.com/HirenPatel4897>

SKILLS

- **Programming Languages:** Python, SQL, R, JAVA, HTML, CSS, JavaScript
- **Data Science/Analysis:** Pandas, NumPy, SciPy Stats, Matplotlib, Seaborn, Exploratory Data Analysis (EDA), Data Visualization, Data Preprocessing, Feature Engineering
- **Machine Learning:** Regression, Classification, Clustering, Association Rule Mining, Natural Language Processing, Deep Learning
- **Tools and Libraries:** Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, NLTK
- **Database Design:** MySQL, Relational Database Design, Normalization, Indexing, Data Constraints

CERTIFICATIONS

- Google Data Analytic Professional Certificate
- Machine Learning A-Z: Python & R in Data Science
- Python A-Z: Python For Data Science
- The Data Science Course: Complete Data Science Bootcamp

EDUCATION AND TRAINING

sentiment and preferences.

Healthcare System Database Design

- **Objective:** Design a robust and efficient database schema for a healthcare system.
- **Technologies:** MySQL.
- **Outcome:** Ensured data consistency and integrity, optimized query performance, and supported diverse healthcare operations.

Bluez E-commerce Web Design

- **Objective:** Create a responsive and user-friendly website for an online store.
- **Technologies:** HTML, CSS, JavaScript.
- **Outcome:** Boosted online sales, improved user navigation, and enhanced overall user experience.

Master of Science

Computer Science

Georgia Southwestern State University,
Americus, GA

- Relevant Coursework: Data Mining, Advanced Database Design, HCI (Human Computer Interaction), Distributed Web Design
- GPA: 3.9

August 2023

Bachelor of Engineering

Electronics And Communications Engineering
Gujarat Technological University, Gujarat,
India

August 2018