RAZIA PATEL

Cell: +919867710800 | *Email:* razia.pateldo@gmail.com
Address: Gulhasan Complex, Kurla west, Mumbai.
LinkedIn Profile / Kaggle Profile / GitHub Profile

OBJECTIVE

"Driven data scientist with a passion for innovation and a solid background in machine learning, AI, and data science. Eager to tackle challenging projects within a forward-thinking company, utilizing my expertise to deliver cutting-edge solutions powered by the latest technologies. Committed to leveraging data-driven insights to make a tangible impact while continuously enhancing my professional skill set."

PROFILE SUMMARY

Experienced IT professional with 10+ years optimizing operations through successful design, implementation, and management of IT systems for enhanced organizational efficiency." Proficient in Python, SQL, and end-to-end data science workflows. Skilled in statistical techniques, machine learning, Deep learning and NLP. Effective communicator translating technical concepts for non-technical stakeholders. Experienced application developer with expertise in SharePoint technologies, adept at designing and implementing collaborative solutions, workflow automation, and enhancing knowledge management portals for various clients.

Skills

Statistical Analysis, Technical/Programming (Python, SQL, Tableau, Excel), Machine Learning, Data Cleaning and Preprocessing, Data Visualization (Matplotlib, Seaborn), Big Data Technologies (SQL), Feature Engineering. Additionally, adept in Microsoft SharePoint services, web application development, and maintenance, with a track record of successful team management. Exceptional communication skills, both in technical and SharePoint-related contexts, enabling effective collaboration and solution delivery.

EXPERIENCE

Company : Data Science Projects – INNODATATICS

Internship Projects [2023]

❖ **Project: p280 - Twitter Semantic Analysis :[Github:]**

➢ **Business Need:** Analyze tweet sentiment and emotion to understand public sentiment and its impact on various topics.
➢ **Solution Using Data Science Techniques:** Preprocess tweet data, perform sentiment and emotion analysis, model selection and model evaluation, final model -xgboost hyper parameter tuning, training testing and deploy a user-friendly web application for accessibility.global deployment of the application on streamlit cloud community.
➢ **Conclusion and Business Impact**: Improved decision-making, brand management, and customer satisfaction through data-driven insights and actionable sentiment analysis.
  • **Improved Decision-Making:** An e-commerce company noticing consistently positive sentiment for a new product in social media data decides to allocate more marketing resources to promote it further.

- **Brand Management:** A global fast-food chain identifies a viral negative sentiment trend related to food quality in tweets and promptly launches an advertising campaign highlighting improved ingredient sourcing to manage and rehabilitate its brand image.
- **Customer Satisfaction:** A hotel chain analyzes online reviews and discovers repeated complaints about noisy rooms, prompting them to invest in soundproofing, leading to increased guest satisfaction and positive reviews.

❖ **Project: p261 -Clustering Analysis – Global Growth Indicators:[Github:]**
  ➢ **Business Need:**The business aimed to gain deeper insights into global growth indicators and identify patterns and trends among them. The goal was to support informed decision-making by clustering and grouping these indicators for better understanding.
  ➢ **Solution Using Data Science Techniques:**To address the business need, I conducted a clustering analysis on global growth indicators using data science techniques. The project was structured as follows:
  ➢ Data Collection and Preparation, Clustering Techniques: Utilized clustering algorithms such as K-Means, Hierarchical Clustering, or DBSCAN to group similar growth indicators together based on their characteristics.Visualization: Created visualizations like scatter plots, dendrogram plots, or silhouette plots to interpret the clustering results and identify meaningful patterns.
  o **Economic Segmentation Selection**: After identifying clusters, a suitable economic segmentation approach was chosen based on clustering results and business goals, enhancing the relevance and applicability of insights.Classification
  o **Model Training and Tuning**: Following segmentation, classification models were trained, tested, and fine-tuned using labeled data, ensuring accurate data point classification into distinct economic segments.
  o **Real-time Predictive Power**: The optimized model was deployed, enabling stakeholders to classify new data points into relevant economic segments in real-time, supporting prompt decision-making and strategic actions.
  o **Conclusion and Business Impact**: – In summary, the Clustering Analysis – Global Growth Indicators project effectively addressed the business need to analyze and group global growth indicators. It facilitated pattern recognition, trend identification, informed decision-making, and real-time economic segment classification. This project equipped the business with tools for deeper insights and actionable data-driven strategies.

❖ **Project: Movie Recommendation System** - [**GitHub Link**][**Project presentation video]**

  ➢ *Business Need*:
    The business needed a way to provide personalized movie recommendations to users, enhancing user engagement and satisfaction on their platform. Traditional movie recommendations based solely on user preferences often resulted in limited suggestions and missed opportunities for discovery.
  ➢ **Solution Using Data Science Techniques**:
    To address this need, I developed a Movie Recommendation System using Python and Streamlit. I employed content-based filtering techniques to generate movie recommendations based on movie similarities. This approach allowed users to receive suggestions based on the characteristics of movies they enjoyed, rather than just relying on user behavior. Additionally, I integrated the TMDb API to fetch movie posters, enhancing the visual appeal and user experience of the recommendations.
  ➢ **Conclusion and Business Impact:** Efficient Recommendations, Improved Discovery, Visual Appeal, Positive User Experience:

❖ **Project: WhatsApp Chat Analyzer (GitHub Link)**
  ➢ **Business Need:** The business required a tool that allowed users to gain insights from their WhatsApp chat history, helping them understand their messaging patterns, engagement, and communication trends. The need was to provide users with a user-friendly and informative platform to analyze their chat data.
  ➢ **Solution Using Data Science Techniques:** To address this requirement, I developed a WhatsApp Chat Analyzer web application using Python and Streamlit. The application allowed users to upload and analyze their chat history effortlessly. Leveraging data science techniques, I employed various tools and libraries to provide meaningful insights. Thus developed a Streamlit-based WhatsApp Chat Analyzer that utilizes Pandas for data manipulation, Matplotlib/Seaborn for interactive visualizations, providing users an accessible platform to analyze chat history for insights into messaging patterns

- ➢ **Conclusion and Business Impact**: The WhatsApp Chat Analyzer web application effectively met the business need for providing users with a valuable tool to analyze their chat history. It facilitated informed decision-making, improved user engagement, and enhanced the overall messaging experience.

- ❖ **Project: Sentiment Analysis on amazon reviews using both nltk -VADER and transformer-** RoBERTa **:** **(GitHub Link) [Video]**
  - ➢ **Business Need:** The business required an exploration of sentiment analysis techniques and a comparison between VADER Sentiment Analysis and a Fine-tuned RoBERTa Model. The goal was to understand the strengths and limitations of these methods in capturing sentiments from customer reviews, particularly focusing on nuanced or sarcastic language.
  - ➢ **Solution Using Data Science Techniques:** I executed fundamental NLP tasks using NLTK, and visualized sentiment distributions. I then compared the sentiment analysis results from VADER and RoBERTa, focusing on agreement and discrepancies,
  - ➢ **Conclusion and Business Impact:** In conclusion, this project addressed the business need to comprehend and compare VADER and RoBERTa sentiment analysis methods. It offered insights into their utility, highlighted their agreement and discrepancies, and guided potential use cases. Ultimately, the project equipped the business with knowledge to make informed decisions when choosing sentiment analysis techniques for different scenarios.

- ❖ **Project: Sentiment Analysis of Elon Musk's Tweets [GitHub]**
  - ➢ **Business Need:** The business sought to understand the sentiment expressed in Elon Musk's tweets to gauge public sentiment towards his statements. The goal was to gain insights into his reputation management, brand perception, and public reception of his communications.
  - ➢ **Solution Using Data Science Techniques:** To address the business need, I conducted a sentiment analysis on Elon Musk's tweets using natural language processing techniques. Employed text mining concepts and sentiment analysis techniques using positive and negative word lists, alongside a stop word list. This process categorized tweets as neutral, positive, or negative sentiments. Created insightful visualizations to present the analysis results. Sentiment Scores Plot: Word Cloud Visualization highlight frequently used words in Elon Musk's tweets, revealing prominent topics.
  - ➢ **Conclusion and Business Impact:** In summary, the Sentiment Analysis of Elon Musk's Tweets project effectively addressed the business need to understand public sentiment towards his tweets. It facilitated reputation management, brand perception monitoring, and actionable insights, ultimately enhancing communication strategies and decision-making processes.

[2018-2022]

- ➢ Founded and operated a successful small-scale tutoring business catering to higher secondary education needs, involving curriculum customization and effective teaching methodologies.
- ➢ Managed all business aspects, from marketing and enrollment to scheduling and finances; led a team of 30 students, fostering academic growth and employing strong communication**.**

Company: Accenture [2012-2017]

- Managed TPM project at Avanade/Accenture from October 2014 to October 2017 as Program/Project Manager.
- As an Application Designer and Team lead at AmEx/Accenture, managed parallel processes, led review processes, and enhanced SharePoint stability during the WPT project from April to August 2013.

Company: Patni Computers Systems Ltd [October 2004, December 2010]

- worked at Patni Computer Systems Ltd. on various projects focused on development, integration, and management of SharePoint-based portals and collaboration tools. I held roles such as Application Lead, Designer, and Developer. Projects spanned from 2004 to 2010, involving technologies like MOSS 2007, ASP.NET, and SQL Server. Responsibilities included development of customized sharepoint sites,

integration with PeopleSoft, Office Add-ins, and knowledge management systems. I was engaged in requirement analysis, documentation, testing, and mentoring teams, contributing to enhanced collaboration and information management within the organization.Was a part of research and development projects, Contributed to KXchange Portal phases, tool evaluations ,MetLife eKM oversight, and Office Add-ins development. Enabled collaboration, managed Knowledge Management, and launched enterprise level applications.

EDUCATIONAL QUALIFICATION

Year of passing	UNIVERSITY	Degree	Grade
2004	MUMBAI UNIVERSITY	BSc. Tech Computer Technology	FIRST CLASS
2001	MUMBAI UNIVERSITY	BSc. Mathematics	FIRST CLASS
1998	MUMBAI UNIVERSITY	H.S.C.	FIRST CLASS
1996	MUMBAI UNIVERSITY	S.S.C	DISTINCTION

PROFESSIONAL CERTIFICATIONS:

- **Data Science Certification** – **Excelr**
- **IBM – Machine Learning with Python** – **Excelr Solutions**
- **MASTERS PROGRAM IN DataScience** - **FutureSkillsprime**