BharatSingh Rajpurohit

Dedicated Data Science aspirant, Currently assisting my professor on Fraud Investigation Project (Data Analytics). Proficient in **Python, Machine Learning, Deep learning, Feature Engineering and SQL** .
I am always keen to learn new skills. I'm passionate about leveraging Machine Learning and Deep Learning techniques to drive Innovative solutions and optimize user experiences.

bsraigur@gmail.com

+91 9422541947

linkedin.com/in/bsraigur

https://www.kaggle.com/bsraigur

ACADEMIC PROJECTS

Classification of glaciers over Himalayan region using deep learning.

Tags: Deep Learning (DL), U-Net, CNN, EDA, Data Preprocessing, Feature Engineering, Model Traning.

- Designed and implemented **U-Net** and **Convolutional Neural Network (CNN)** architectures to classify Himalayan glaciers using **Landsat data**, enabling accurate glacial feature recognition.
- Utilized deep learning models to effectively analyze and classify **glacial features**, contributing to climate conservation efforts by providing detailed insights into glacial changes in the Himalayas.

Customer Lifetime Value (CLV) using Machine Learning

Tags: Regression, Classification, XGBoost, Feature Engineering.

- Developed a **CLV** model by selecting and creating new features from data, training a machine learning model using **XGBoost**.
- Built a **regression model** to estimate customer spend and a **classification model** to predict **spend probability** in the next 90 days.
- Enhanced targeted marketing strategies through detailed **insights** on **customer spending behavior and probabilities.**

Movie Recommender System Project | Content Based Recommender System

Tags: Unsupervised ML, Clustering, Count Vectorizer, TF-IDF, Content Based Filtering.

- Developed an **Unsupervised ML model** that can perform **clustering** on the comparable dataset by matching text-based attributes.
- Performed **feature selection, data cleaning, handling missing values** and **text preprocessing** using **TFIDF vectorizer** and **PCA for dimension reduction**.
- Built a **recommender system** using clustering and **cosine similarity**. Can drive customer engagement, and retention and boost revenue by providing personalized TV/Movie recommendations based on user preferences.

Chat Analysis

Tags: NLP, Deep Learning, Pre-trained Model, HTML, CSS, Flask

- Developed an emotion detection webapp using **HTML**, **CSS**, and **Flask**, leveraging a pre-trained model to predict sentiment from user messages.
- Implemented real-time **sentiment analysis** and visualizations to provide immediate feedback and insightful trends, enhancing user experience and engagement.

TECH STACKS

Expertise in Languages & Tools
Python || SQL || GIT || Linux || C\C++ || HTML || CSS

Platform
Kaggle || Jupyter Notebook || PostgreSQL || VS Code || Google Colab

ML\DL Framework & Libraries
Scikit Learn || NumPy || Pandas || Matplotlib || Plotly || Seaborn || NLTK || Keras || Tensorflow

WORK EXPERIENCE

Internship
Heliconia Solutions Pvt. Ltd

April 2023 - June 2023,

Skills: Python, Pandas, Matplotlib, Odoo, SQL, Excel, Supervised ML, Unsupervised ML, Good Communication, Team Work.

- Performed **Data Analysis** using **Python, Pandas, Matplotlib, Seaborn and Numpy** on collected data by Odoo from customers to improve **CRM(Customer Relation Management).**
- Built **predictive models** to solve real-world problems & improved decision-making processes. Gained hands-on experience with the latest technologies.

Internship
Education4ol

Jan 2022 - April 2022,

Skills: Python, Django, GIT, SQL, HTML, CSS, Bootstrap, Good Communication, Team Work.

- **Development and Integration**: Developed a multi-user login blogging website using Python, Django, SQL, HTML, CSS, and Bootstrap, including designing the database schema and integrating technologies for user account creation, login, and blog post publishing.
- **Technical Proficiency and Collaboration**: Demonstrated proficiency in various technologies, effectively solving problems and debugging with a focus on attention to detail and security measures, while collaborating effectively within a team and showcasing adaptability and a willingness to learn new technologies and frameworks.

EDUCATION

Master Of Technology: Applied Data Science and Artificial Intelligence
National Forensic Sciences University
(Institute of National Importance)

08/2023 - Present,
SGPA - 8.05

Bachelor of Technology: Computer Science & Engineering
Parul University, Vadodara

06/2018 - 06/2022,
CGPA - 7.5

LANGUAGES

English (Professional Working Proficiency)
Hindi (Native or Bilingual Proficiency)
Rajasthani (Native or Bilingual Proficiency)
Marathi (Professional Working Proficiency)
Gujarati (Professional Working Proficiency)