Saamarth Rastogi

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SKILLS

- **Languages & Tools:** Python (e.g., NumPy, Pandas, Matplotlib, Seaborn, Sci-kit Learn, Beautiful Soup, OpenCV), Keras, TensorFlow, SQL, Tableau, Power BI, Git, Postman, JIRA, Selenium, MS Word, MS Excel, MS Teams, MS PowerPoint, MS SharePoint, MS Access.

- **Data Science Skills:** Regression (Linear, Multiple-Linear, Polynomial, SVR, Random Forest), Classification (Logistic, Naïve Bayes, SVC, Random Forest, KNN), Clustering (K-means), Anomaly Detection, Deep Learning (CNN, RNN, LSTM), Hypothesis Testing.

- **Other Skills**: Exceptional interpersonal, leadership and team management skills. Excellent analytical and problem-solving skills.

EDUCATION

Post-Graduate Certificate: Applied A.I. Solutions Development Program **January 2022 – December 2022**
George Brown College, Toronto, ON

- GPA (First Semester): 3.69/4.0
- **Relevant Coursework:** Applied Machine Learning, Deep Learning, Statistics, Data Visualization, Ethics In AI

Bachelor of Technology: Information Technology **July 2015 – July 2019**
Manipal University Jaipur, Jaipur, India

- CGPA: 7.56/10.0
- **Relevant Coursework**: Data Warehousing, Python, RDBMS

WORK EXPERIENCE

Data Analyst (Internship) **January 2019 – May 2019**

Allied Blenders and Distillers Pvt Ltd, Mumbai, India

- **Automated Data Factory**
  - Captured sales data of the company products sold at the secondary units.
  - Implemented automation techniques using python libraries (Selenium Web driver) to scrape this data on daily basis and store it on Azure's MS SQL Server.
  - Updated and published the data stored in the database to Power BI platform to create a strong visualization and performed analysis to get business insights.
  - Overall, this Automated ETL Pipeline and Visualization helped the Company figure out the Pareto principle for their Business and the areas where significant improvement was required.

Quality Analyst **August 2019 – December 2021**
Larsen and Toubro Infotech Ltd, Mumbai, India

- **Project I, Viacom CBS Inc. (offshore outsourcing project) [August 2019 – December 2020]:**
  - Compliance Testing using Automation (Selenium using Java) and Manual tools.
- **Project II, Broadridge Financial Solution (offshore outsourcing project) [January 2021 – December 2021]:**
  - API Testing using Postman, Selenium using Java and Python, JIRA.
  - Data Extraction and Manipulation using Dynamo DB(AWS), HeidiSQL and AWS tools such as S3 Bucket and CloudWatch
  - Resolving Technical Queries of Client team and providing solutions for Business Problems.

Student Success Ambassador (Part-time) **April 2022 – August 2022**
George Brown College (Casa Loma Campus), Toronto, ON

- Serving as a peer mentor in the Student Success Center and providing support to first-year students, helping them to negotiate college transitions, from campus connections and facilitate student success by guiding, supporting and advising them.

Data Scientist (Co-op) **September 2022 – December 2022**
Royal Bank of Canada (RBC), Toronto, ON

- Help identify and implement optimal modern solutions that support the T&O (Technical and Operational) reporting strategy and dashboard adoption targets. Support key initiatives to help advance the team's data analytics and reporting capability / service to the user community (executives and delegates).
- Support prioritized business insights use cases (end to end from data intake to insight delivery). Experiment with new analytical and automation techniques.
- Mine, clean, transform, visualize data from diverse sources and formats.
- Question assumptions.
- Expected deliverables: automation scripts, data visualization, data analysis.

ACADEMIC PROJECTS (GitHub)

License Plate Detection using frequency and spatial domain methods. (GitHub):

George Brown College, Toronto, ON

- Applied Discrete Fourier Transformation to detect noise pattern and used notch filter to suppress the noise within the image.
- Applied Post-Processing techniques such as Gamma Correction, Contrast Stretching and Image smoothing to obtain better results
- Finally applied image smoothing using average filtering to obtain the license plate number.

Credit Default Analysis(GitHub):

George Brown College, Toronto, ON

- This project is to predict the credit defaulters based on certain factors(features), such as the income, age, loans, etc. (Here limited features have been used to showcase the simple implementation of Data Preprocessing and ML Model building techniques).
- Data Preprocessing was applied to the raw dataset. The process involved checking for missing data/null values, Data Type transformation, Outliers detection.
- A classification model (Logistic Regression) was used, as the use case is related to a classification problem. Certain hyper-parameters were defined, which was selected using GridSearch() function and the model object was initialized, with these parameters.
- Model training was performed with the preprocessed data and accuracy was calculated, which came out to be 94.02%
- 94.02% is a good accuracy rate and should be sufficient to detect the credit defaulters. To further increase the accuracy, we can use Feature Extraction and Feature Selection methods.

Automated Itinerary Generator (GitHub):
Manipal University Jaipur, India

- This Project was developed as part of my Minor Project during my graduation period. It was an attempt to create an Automated Itinerary planner for a Tourist visiting the City of Jaipur, in India.
- The data about the tourist places and food places famous in Jaipur, the geographic location of these places, and the details of the people visiting these places was collected from various sources and merged
- This Data was then supplied to a combination of Machine learning algorithms such as KNN and Ant Colony Optimization (Swarm Intelligence), to create an Itinerary for a new tourist visiting Jaipur.

INTERESTS

Languages: English (Fluent), Hindi (Native)

Hobbies: Traveling, Football, Swimming, Dancing, Singing