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GURNIKA KAUR

May-Aug 2022

EDUCATION

- Bachelor Of Mathematics (Honors), University Of Waterloo (Sep 2021- April 2026)
- Intended Major Statistics with Minor in Combinatorics.

SKILLS

- Languages and Libraries: Python, SQL, R, Excel, Power BI, Microsoft Azure, Tableau, Scikit-learn, TensorFlow, Keras, Pandas, NumPy, Matplotlib
- <u>Certifications:-</u> Google Data Analytics, IBM Machine Learning Professional Certificate (2/6)
- Familiarity with machine learning models: Ridge, Lasso, Polynomial, Linear, Elastic Net Linear, Regression models
- Designing:- Adobe Pro DC, Adobe Spark, Canva

WORK EXPERIENCE

QUALITY DATA ANALYST: - HATCH Ltd, Mississauga, ON, Canada.

- Assisted in audits, including creating and closing out audit findings, drafting reports and deterining proper corrective and preventive measures following the ISO standards.
- Built Power BI dashboards for gaining insight and visualizing unused data to perform co-relational analysis. This aided in framing policies for better decision making.
- Calculated project risk. Automated email alerts by building a pipeline between Ipas SM and Ipas DM to Quality Leads using Hatch internal document sharing systems thus reducing 20 minutes of real office time daily.
- Analyzed factors affecting client satisfaction, quoted prices in **Project Bidding and created win-win situation leading to** more successful Project Bidding.
- Automated the process of EDA of data using SQL for analysts and Quality Leads. Reduced the runtime of queries by 12% by eliminating redundant data.

DATA ANALYST INTERN: BLOOD BANK, Action Cancer Hospital

- Created <u>Pivot tables</u> using <u>Excel</u> and graphing functions using hospital database to analyze 10+ GB of time series data to integrate relationship of Donor's gender, age, Blood sample and Frequency of Donation.
- Conducted <u>data cleansing, EDA and analysis</u> using Python. It depicted maximum donors' in the age group 25 to 35 years and found an increase in the number of donations when an auspicious festival neared.
- Aided in decision-making process by introducing incentives like gratis medical treatment.
- Long-time donors were given gift hampers and benefits to encourage them to donate more.

PROJECTS

MALARIA IMAGE PROCESSING DETECTOR

- Developed and trained a Malaria Binary Image Classification Deep Neural Network model which detects the presence
 of malaria as a parasite in blood cells using dataset of red blood cell images using TensorFlow, Keras, OpenCV and
 Matplotlib.
- Used 27.6K images to train the model with a train:test:validation split of 70:20:10.
- Achieved a 95.75% accuracy rates and 95% validation accuracy.

COMMENT- TOXICITY MODEL

- Developed a Deep Neural Network Comment Toxicity Model using TensorFlow and Keras, Pandas and NumPy todetect the intensity of toxicity, obscenity and threat level of the comment by performing NLP.
- The model is linked with **Gradio App** having link being active for 72 hours. The dataset is leveraged from **Kaggle** Toxic Comment Classification Challenge.
- Achieved 87% precision rate with 84% accuracy rate.

BITCOIN PRICE PREDICTION

- Used <u>Pandas for Data manipulation, Facebook Prophet</u> for forecasting and **Plotly** (Including Violin Plots) for <u>Data</u> <u>Visualisation</u>.
- Worked on Google Finance to observe trends and forecast prices of Bitcoin for 2022 with 83.33% accuracy in projections.

TITANIC SURVIVAL KAGGLE COMPETITION

- Developed a predictive model showcasing rate of passengers that survived the Titanic shipwreck using Logistic Regression, Scikit learn and Pandas.
- This model was submitted in the Kaggle -Titanic Machine learning from disaster competition. It examines the survival rate of passengers depending upon their gender, age and socio-economic classes as the main factors.
- Used Matplotlib to plot the results of the predictions and its outliers. After testing, the model has an accuracy of 81%.

ACHIEVEMENTS

DIRECTOR of First Year Affairs: UWaterloo MathsSoc
 <u>Enrolled 80+ students</u> across campus with 8 different Math majors. <u>Headed</u> <u>communication</u> and promoted events on social media channel.

• MATHSOC MARKETING DIRECTOR

• UWACTSCI Publicity Director

May-Aug 2022

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2022

2023

2020

Dec 2021

2022