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VIRAL PATEL

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SKILLS

- **Programming Languages:** Python, JAVA, C++, C
- **Libraries:** SkLearn, Numpy, Pandas, Keras, Matplotlib, OpenCV, Seaborn, Tensorflow
- **Frameworks and Tools:** Django, Docker, Flutter, Postman, Flask, REST API, JIRA, MATLAB, Linux
- **Web Technologies:** HTML 5, CSS, JS, WordPress, React
- **Data Management:** SQL, MongoDB, PostgreSQL
- **Management:** Teamwork, Leadership, Fluent in Communication, Time Punctual, Presentation, Self-motivated, Eagerness to Learn, Enthusiasm

EXPERIENCE

Industry Internship Project
City of Ottawa – PDC
August 2020 – December 2020
- Developed an Android-based "Waste Advisor Application" using Flutter which classifies the waste images.
- Trained Deep Learning models using Keras (InceptionV3, VGG) and Teachable Machine, achieved 80% accuracy.
- Deployed a model using Starlette to create **RESTful API**, containerized with **Docker** and hosted on **GCP.**

Data Science Intern
KataniTech
April 2020 - August 2020
- Worked in a Startup having a team of ten members, contributed on the Back-end development.
- Extracted data using Tweeter API to perform Data Analysis and **NLP** to extract the insights from tweets.
- Worked on AWS and MongoDB services for Database Management and cloud deployment.

Machine Learning Co-op
PRL, Department of Space
February 2019 - May 2019
- Worked under the guidance of the Scientist and implemented Machine Learning algorithms to perform **Classification** on the moon surface's **Multispectral** image-data having a size of **2TB** and achieved **95%** accuracy**.**
- Used **MATLAB** for Dataset formation, Graph plotting and Map creation.

SELECTED ACADEMIC PROJECTS

Mouse Cursor Controller Using Facial Gestures [Python, Numpy, Pyautogui, CV2, Dlib]
- Developed a Project to replace the traditional mouse with the **human face and eye movements**.
- Used a Dlib library's **Shape Predictor** method to estimate the pose of a face.

Statistical Analysis of Building Prameters [Python, SKlearn, Pandas, keras]
- Developed a Program using Data Exploration, Statistical Analysis, Feature Detection, Regression and Classification(KNN, CART, SVM, ElasticNet, ExtraTreesRegressor, RFC).
- Achieved **96%** accuracy using Random Forest algorithm for a prediction of Heating load and Cooling load.

Credit Card Fraud Detection [Python, Numpy, SKlearn, XGboost]
- Performed Data Analysis and Classification on a Bank Dataset to detect **Fraudulent Transactions**.
- Compared Algorithms (Decision Tree, KNN, Logistic regression, SVM, RFC, XGBoost) by using Test Parameters as Accuracy, F1-Score, Confusion Matrix and achieved **99%** accuracy and **78%** F1 Score with **KNN**.

Best Neighborhood in Toronto [Python, BeautifulSoup, SKlearn, Folium]
- Developed a Program to find a best location to open a restaurant in Toronto using **Clustering** algorithm(K-Means).
- Foursquare API used to get geographic data of Toronto.

EDUCATION

Master of Systems Science, University of Ottawa   GPA: 3.87   January 2021
- Coursework: System Optimization and Management, System Integration, Artificial Intelligence, Modelling and Simulation, Mobile Commerce Technologies, Transcript

Bachelor of Computer Engineering, Indus University   GPA: 3.8   *May 2019*
- Coursework: Data Structure and Algorithms, Database Management, Data Mining, Object Oriented Programming

ACHIEVEMENTS AND AWARDS

🏆 Certification**: IBM Data Science Professional** [Data Analysis and Visualization, Database for DS, Machine Learning]
🏵 Volunteering**: Coordinated** Technical events during four years of bachelors including **TechFest** and **Coding Events**