**Janit Jindal(he/him)**

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# Summary

* Dashboard Development and recommending impactful solutions using Machine Learning techniques using Tableau and PowerBI based on the assessments given.
* Optimization and selection of best solution by using various statistical analysis techniques such as hypothesis testing.
* Expert in communication and delivery mock-ups that balances business related requirements, technical, and project timeline.
* Time management skills and ability to prioritize and multi-task in a fast-paced agile environment.

# Education

**Ontario College Graduate Certificate in AI and Data Science Loyalist College, Toronto Sept’22 – Present**

* Applying various techniques to create different projects and assessments such as analyzation of Flight Delay and categorization of customers visiting fast food chains by using **Tableau**, **SQL**, **PowerBI** and other below mentioned Libraries and software.
* Optimizing cost effective and profitable product selling solutions using **linear programming optimization, hypothesis testing and sampling, confusion matrix** and many more.
* Creating current  **SOTA predictive models** using **Neural Network**, **GANs**, **Recurrent NN** and many more.
* **Relevant courses: Data Visualization, Machine learning, Natural Language processing, Deep Learning.**

**Bachelor of Engineering in Mechatronics Chandigarh University, India May’21**

* Executing the knowledge earned to create multiple projects such as quadcopter, SWARM robotics and many more.
* Creating 3D models on various simulation software like **SolidWorks** of mechanical equipment while also focusing on using **LABVIEW** and **MATLAB** to implement the electronic aspect.
* Optimize the use of micro-processors, micro-controllers and various sensors.

# Technical Skills

* **Visualization**: PowerBI, Tableau
* **Programming**: Python, C, C++, Rstudio
* **Machine Learning and Analysis (Key Libraries):** Pandas, NumPy, scikit-learn, matplotlib, Regression, Classification, Decision Tree, Random Forest, Boosting, scipy.stats, seaborn, warnings
* **Project Management Tools:** Power point, Excel, Microsoft Word, JIRA, Trello
* **Software:** Anaconda, Jupyter, SolidWorks, AutoCAD, MATLAB, Arduino
* **Natural Language processing:** nltk, regrex, Tfidvectorizer, nltk.stopwords, lime, tensorflow (tokenizer, embedding, GRU, dense, Dropout, etc.
* **Sql:** Mysql, sqlite3, sql magic w/python, dbmodule w/ python.

# Certifications

**Patent - Automated Seed-Sowing Robot.**

* Worked in a team of **4** to build an automated seed-sowing robot in workshop month of engineering.
* Used **servo motors** and **dc motors** to have motions for seed picking and sowing.
* Electronic components like **Arduino, batteries and breadboards, Bluetooth modules (hc-05)** were used.
* Patent authorized by **Intellectual property India** after completion of the project with assistance of mentor.

**Participation certificates - Quadcopter & Egg dropping Parachute.**

* In a team of **3**, built a quadcopter and egg dropping parachute in honour of engineering day.
* Constructed the mechanical parts of the quadcopter from scratch using workshop equipment’s and techniques like **carpentry, stainless steel workshop, welding and drilling** to have an efficient lighter and sturdy base.
* Tested parachute by dropping tests and assisting with designs of container to carry the egg.

**Fundamentals of Visualization with Tableau - Coursera. |** [**LINK**](https://www.coursera.org/account/accomplishments/verify/U8CWS9MWQ6VK)

* Learnt about the basics of visualizations and concept of insights.
* Learnt concepts of **line chart, bar chart, tree maps** and many more types of visualizations.
* Gained insightful knowledge about how **tableau public**, viz of day and many more.
* Worked on google sheets to create visualization and completing the module with creating a final peer review project.

**Introduction to machine learning - Kaggle |** [**LINK**](https://www.kaggle.com/learn/certification/janitjindal/intro-to-machine-learning)

* Concepts about **data exploration, underfitting** and **overfitting** learnt throughout the course.
* Created a basic model using **sklearn DecisionTreeRegressor.**
* Learnt about **Random** **forests** and how it is different from other models.

**Introduction to databases – META (by Coursera) |** [**LINK**](https://www.coursera.org/account/accomplishments/verify/4YU9J6C7C39H)

* Gained knowledge of building blocks and basics of **Sql** using **phpMyAdmin** with **mysql server.**
* Learnt concepts about **database schemas** and the importance of **planning** and **organizing** the data.
* Working on **normalization** and removal of various **anomaly** such as insert anomaly, update anomaly and many more.

**Databases and SQL for Data Science with Python (w/ Honors) – IBM (by Coursera) |** [**LINK**](https://www.credly.com/badges/713d7579-f094-4e35-bade-7674a13829f4)

* Worked and experienced on **sorting** and **grouping** of entities.
* Learnt about **Sub-query** and **Nested** **query** to gain optimum results.
* Getting the knowledge about **DBAPI** and **sqlAPI** and accessing databases with **python** using **sql Magic** including **connection** and **cursor methods.**
* Acquired the insights and knowledge about **Views creation, stored procedure** and **ACID transaction** with **JOINS**.

**Python for Data Science – Fractal Analytics (by Coursera) |** [**LINK**](https://www.coursera.org/account/accomplishments/verify/G627AM0FL7J5)

* Worked on the concepts of data wrangling and exploratory data analysis such as **merging, descriptive statistics**.
* Learnt about the concept of hypothesis testing like **z-test**, **t-test** and many more along with data distribution like **binomial,** **poison**, **normal** and visualization using **matplotlib** and **seaborn**.
* Used Data normalization techniques like **z-score**, **min-max scaling** and feature engineering methodologies such as **principal component analysis (PCA)** on a sales dataset.

**Foundation of Machine Learning – Fractal Analytics (by Coursera) |** [**LINK**](https://www.coursera.org/learn/foundations-of-machine-learning)

* Gained knowledge about different model understanding methods like, **multi collinearity** and **descriptive models** using **statsmodel.**
* Applied various machine learning algorithms such as, **KNN, Decision trees** with  **underfitting** and **overfitting handling** using **pruning, imblearn, SMOTE** and many more.
* Acquired insights about clustering algorithms namely, **K-means, Hierarchical algorithm and DBSCAN.**

**IELTS-Score: 7.5**

# Projects

**Flight Delay Dataset |** [**LINK**](https://github.com/Janit0/Flight_delay_classification)

* Initiated with **1Million+** data points and performed step by step processes to have an optimized result of whether a flight should be cancelled or not.
* Leaded the team of **7 peers** and performing tasks of data cleaning, data visualization, data storytelling and Data Modelling.
* Used and chosen software like **Python, Tableau, PowerBI and Excel** for high efficiency and accuracy.
* Made **50+** visualizations to understand outliers, patterns and for storytelling.
* Chosen from **10+** algorithms like **Logistic Regression, KNN, Naïve Bayes and many more** to build a model.

**O2R2 business dataset |** [**LINK**](https://public.tableau.com/app/profile/janit.jindal/viz/O2R2MOBILE/MonthlyIncomeplanpitched)

* Initiated with **1000+** data points with **20+** features and focused on visualization part as a team member.
* Used **Tableau** to create **15+** graphs and giving insights.
* Gave business recommendations to enhance profit and the lack of employee and customer satisfaction of sales, thus assited to understand patterns for easy model building.

**Thyroid Cancer Classification prediction |** [**LINK**](https://github.com/Janit0/Thyoroid_cancer_classification)

* Initiated with **200K+** data points with **20+ features** such as ID, Age, Ethnicity, and many more and target feature named Diagnosis (Benign & Malignant).
* Pre-processed and visualized the data using **encoding,** **matplotlib and seaborn.** In addition, created a descriptive model (**Logit**) for **feature selection** and **tuning**.
* Used three types of predictive classification models with tuning: - **Logistic regression, KNN, Decision Trees.**
* Generated results with mitigation of **overfitting** of models and comparing **scoring** results with conclusion.

**SPAM/HAM email prediction |** [**LINK**](https://github.com/Janit0/Spam_Ham_detection)

* Worked with **7K+** data points of emails labelled as spam and hams with content in text file.
* Pre-processed the data with various methods like **Regrex, Tokenization, vectorization** and **dropping missing values.**
* Created a **Bigram SVM** model to predict whether the email should be ham or spam, fine tuned the model using **cross-validation, probability factor and bagging model.**

**Financial chatbots (AIP project) |** [**LINK**](https://github.com/Janit0/FinOclik)

* Leaded a team of **4** as a **project manager** and **NLP advisor** to create two financial chatbots named as Finoguider (**general Q&A chatbot**) and Finolyzer (**stock analysis bot**).
* Used **web scrapping** and **API** tokens to fetch data from online and created a **name entity recognition model (NER).**
* Built portfolio website using **wix** and globalized the project using **ngrok** domain.
* Created user-interfaces using **flask and python** for easy accessibility to customer.

**Model Car Warehouse Shutdown Analysis |** [**LINK**](https://github.com/Janit0/analyze-model-car-mysql-workbench)

* Worked on a database containing **8+** entities with information about products, orders, payments, employees and many more using **MySQL Workbench.**
* Used **joins, filtering, entity creations** for data analysis and finding patterns among **EER.**
* Giving suggestions and selection for warehouse closure with items transferability for minimum loss and maximum profit.

# Work Experience ,

**Busser Grupo Terroni, Toronto March’ 23 – Present**

* Focusing on customer service and satisfaction while working as a support staff.
* Implementing team building exercises and training new trainees to enhance maximum output and progress.
* Taking quick actions to rectify errors occurring during and after working hours.
* Maintaining communication with colleagues and managers for subsequent improvements in the workplace.

**IELTS Tutor Hippocampus, India March’ 22- July’ 22**

* Teaching **50+ tutees** and enhancing their skills by understanding the lack of empirical practices in the institute.
* Generating and providing vital notes and methodologies to improve daily progress of tutees.
* Maintaining and building confidence of students to be able to earn better scores.
* Creating adequate **mock tests** to identify and clarify the misconceptions and errors among the students and helping to clear doubts simultaneously.