

# NAVJOT SINGH

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## Summary

A versatile and proficient individual with **4.5 years of experience** in developing predictive models using various machine learning algorithm, natural language processing, providing Business Intelligence Solutions to clients. **Motivated Team player** and organized person with ability to identify customer needs, make technical recommendations and implement effective IT solutions. Seeking a good position as Data Scientist in a progressive organization to leverage the power of analytics to shape better future for everyone

## Skills

- **Databases:** MS-SQL, MYSQL, MongoDB, AWS - S3
- **ETL Tools:** Informatica, SSIS, Tableau Prep, Spark
- **Reporting:** Cognos, Tableau, Actuate, Looker
- **Programming Language:** Python, R, HTML5, javascript
- **Analytic Packages:** Python – pandas, numpy, scikit learn, keras, OpenCV, nltk etc.
- **Machine Learning Models, Neural Networks and Web Scrapping, Data Mining**
- **Tools:** PyCharm, Jupyter notebook, eclipse, spyder, JIRA, Airflow

## Experience

**DECEMBER 2019 – PRESENT**

**DATA SCIENTIST, SAINT MARY'S UNIVERSITY- REMOTE**

- Working on the **Green Washing Analysis** of 5000+ companies.
- Scrapped 1M+ screenshot using **Selenium and Python**.
- Created predictive model to classify blank and non-blank Images to remove noise using **python, scikit learn, CNN etc.**
- Created predictive model to detect various objects in the screenshot and find pattern in the greenwashing and the object detected using **python, CNN, AWS S3 etc.**
- Built OCR pipeline to get the text from the 1 Million images and gather sentiments from the text **python, spacy, pytesseract, nlp, gensim, texblob etc.**
- Pattern recognizing from the images and feature selection to determine important parameters using **Python, CNN, tesseract, beautiful soup, selenium**

**MARCH 2018 – AUGUST 2019**

**BUSINESS INTELLIGENCE ENGINEER, GERSON LEHRMAN GROUP**

- Built Product Customer segmentation to maximize profit of retail store by 15% using **R, Clustering algo, SQL**
- Created Revenue **Dashboards to measure KPIs** for Stakeholders and Senior – Management in **Tableau, Tableau Prep and SQL**.
- **Rest API** for the predictive model consumption for logistic client using **Flask, Python, Ensemble Algorithm**
- Created various data sources connector using SQL views, table joins, Data Blending in **Tableau Desktop**.
- Created testing **framework** for automating **SQL** build processing using **python** and **TSQLT**.
- Created SQL objects in **Data Warehouse** using facts and dimensions modelling in hybrid (**star & snow-flake schema**) and managed versioning using **GitHub** along with Continuous Integration and Deployment.
- Built data Cleaning Pipeline using **Informatica Workflows** and **Control M** as a job scheduler.
- Built a **text match** with unstructured data system leveraging **Natural Language Processing, MS-SQL** by following agile methodology.

## Achievements:

- **Won Special Award in Nova Scotia Open Data Contest- 2020** for improving Healthcare using **Tableau** and predictive modelling in **python**.
- **Certified Tableau Analyst**
- **Certified Tableau Designer**
- **Certified Tableau Data Scientist and Developer.**
- Member of **Corporate Social Responsibility** team in the company for organizing Charity Events for **poor young children**.
- **Insta Award** for the innovation and cost saving for the customer.
- Member of Volleyball team at university and corporate level.

## Education

SEPTEMBER 2019 - DECEMBER 2020

**MASTER'S DEGREE IN COMPUTING AND DATA ANALYTICS**

SAINT MARY'S UNIVERSITY -  
HALIFAX

AUGUST 2011 – MAY 2015

**BACHELOR OF TECHNOLOGY (ECE)**

PUNJABI UNIVERSITY – INDIA

## Experience

JULY 2015 – MARCH 2018

**SENIOR SYSTEM ENGINEER, INFOSYS LIMITED**

- End to End Infosys TV Analysis using **MS-SQL, Informatica, Tableau and Actuate** as per the business needs.
- Predictive Model to find Safest Port for Logistic Client – Python, News feed, user input, seaborn etc.
- **Automated** Access Provisioning Tool for client reports – using **NLTK, Selenium**.
- **Automation** Platform to reduce Company licensing cost – using **Cognos, SQL Server**.
- Manage monthly and Weekly report delivery of **tableau reports extract** using **Tableau Server**.

## Project

- Built an **address enrichment solution** in **Service Canada** hackathon using **Python, AWS - S3**
- Worked as a **freelancer** for client to gather all the product categories and price listing **hierarchy from French E-COM**.
- Created **web-crawler** for music industry client by data - mining from social media website using **Selenium and python- beautiful soup**.