NAVJOT SINGH

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Summary

A versatile and proficient individual with 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 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, Power BI, Plotly
- Programming Language: Python,
 R, HTML5, JavaScript
- Analytic Packages: Python pandas, NumPy, scikit learn, keras, OpenCV, nltk, matplotlib etc.
- Machine Learning Models, Artificial Neural Networks and Web Scrapping, Data Mining, clustering, decision tree learning, regression, A/B Testing
- 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 from data using python, keras, TensorFlow, CNN etc.
- Created Object Detection Model to detect various objects in the screenshot and classify it into feature matrix with 526 different object categories using python, CNN, AWS S3 etc.
- Built OCR pipeline to extract text from the 1 Million images using python, pytessarct.
 Cleaned, processed text data and gather the sentiment using python, gensim, spacy, texblob etc.

MARCH 2018 – AUGUST 2019

BUSINESS INTELLIGENCE ENGINEER, GERSON LEHRMAN GROUP

- Built Customer Product segmentation model which led to sales increase by 15% in retail store using R, Clustering algo, SQL
- Built a Data processing pipeline to analyze company's KPIs starting from building views/tables in SQL, extract and transform in Tableau Prep and Dashboard to get insights in Tableau. It acts as a monitoring tool for the Executive board and Top leadership for measuring company's performance daily.
- Built a Probabilistic Classification Prediction model for logistic client to determine the
 reliability of a port using Python, Ensemble Algorithm, SQL, NSS Feed. Exposed the model
 output through Rest API using Flask framework. It has a huge reduction in their logistic
 planning phase.
- Built an automated testing framework enabling rigorous data quality check before loading the production data warehouse system for downstream consumption using Python, TSQL-T, SQL, Apache Airflow. This reduced the data quality issue by 25%.
- Created a Strategy and plan to build SCD 1, SCD 2 and SCD 3 SQL objects in Data Warehouse using facts and dimensions modelling in hybrid (star & snow-flake schema) schema and managed source code versioning using GitHub along with CI/CD Pipeline. This reduces the Data warehouse build time by 1.5 hour.
- Built a Biography text match tool to flag the potential profiles to be corrected by Research managers using MS-SQL, Python, nltk, spacy, fuzzy match, nlp, following agile project management. It reduces the research manager profile screening time significantly (30%).
- Built Data collection and Cleaning Pipeline to extract the data from various sources on AWS into AWS S3 bucket. Cleaned data and select features adhering to business logic using python, Apache Spark into the SQL Data warehouse.

Achievements:

- Won Special Award in Nova Scotia Open Data Contest- 2020 for improving Healthcare using Tableau and predictive modelling in python.
- Certified Tableau Developer
- Certified Tableau Analyst
- Certified Tableau Designer
- Certified Tableau Data Scientist
- Member of Corporate Social Responsibility team in the GLG 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.
- Part of Khalsa Aid Volunteer team to help poor provide free meals.

Experience

JULY 2015 - MARCH 2018

SENIOR SYSTEM ENGINEER, INFOSYS LIMITED

- End to End Infosys TV Analysis, gathering data from SQL and processing and cleaning the
 data using Informatica and provide visual insights from Tableau dashboard and
 storyboards. It enables entertainment and informatics department to switch the content
 from one segment to another.
- Built Email Outreach dashboard for the customer satisfaction department to gather the statistical insights on various emails sent to different professional segments using Tableau, R Server, MS SQL. It helps to improve outreach channels and reduced professional churn rate by 10%-12%
- Built Automated Access Provisioning Tool for Reporting support team to service the
 access request that comes in ticketing tool Service Now using python, NLTK, Selenium,
 SQL scripts. This tool saves 70 hours of team monthly time.
- Built Automation Platform to decommission unused Cognos reporting tool licenses using
 Cognos report studio, SQL Server. It reduces the company's licensing cost by 20%.
- Schedule and maintain monthly and Weekly report delivery of **tableau reports extract using Tableau Server**. It helps sales team leaders to maintain their team targets.
- Managed Multi-platform data collection to merge and analyze large dataset using spark, python, Data Bricks, AWS - S3. Collect data in the single place as source of truth for all downstream applications.
- Build, test, and document complex data pipeline which will be help peer to peer knowledge transfer using GitHub wiki, Visio, lucid charts.

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

Project

- Built an address enrichment solution in Service Canada hackathon by classifying address
 in residential and non-residential using Python, AWS S3, open data, scikit learn,
 decision tree algorithm. Solution is selected among top 5 teams as it can act as lead
 generation for investigating team.
- Built award winning solution in NS Open Data 2020 to build end to end solution from data collection to predictive model. Collection of open data, data cleaning was accomplished using Tableau Prep. Forecasted the number of patients for diseases using Tableau. Built a multivariate regression predictive model to determine the staff needed to serve the forecasted patients using python, stats model, SciPy. This solution helps the NSHL with better staff management and in turn reduce patient wait time in hospitals.
- Worked as a freelancer for client to gather/scrap all the product categories and price listing from French E-COM website using python, beautiful soup, request, selenium. Built a hierarchy output format to compare different products among various categories.
- Built the Storyboard for Nova Scotia Hospitals to analyze their expenses, overhead, staff
 allocation using Tableau, Tableau Prep, python. It enables Health authorities to better
 access the staff needs and supply cost in different hospital
- Created an Apriori rule-based association mining algorithm to predict the clicks on website along with A/B testing using R, python, Spark, SQL.
- Created **web-crawler** for music industry client by data mining from social media website using **Selenium and python- beautiful soup** and build the **top trending playlist** of songs.