

AMANDEEP SAROA

Education

BACHELOR OF SCIENCE IN COMPUTER SCIENCE – Ontario Tech University – Oshawa, ON

September 2021

Majors: Data Science

Skills

Python

Libraries: pandas, matplotlib, ggplot2, BeautifulSoup2, re, os

R Programming

Packages: dplyr, shiny, ggplot, tm, tidyr

Excel

Tools: Pivot Table, Pivot Chart, VLOOKUP, HLOOKUP, VBA

Power BI

Tools: DAX, API, Power Query

SQL

Software: SQLite, MySQL, PostgreSQL

Projects

DATA SCIENCE JOB MARKET EDA – Personal Project – Oshawa, ON

January 2024

- Utilized **Python** to analyze 7000 data science job listings and gain insights on what it takes to land a job in analytics.
- Implemented **Regex** techniques to comb through the job descriptions and identified the key requirements.
- Aggregated and visualized the data by using **pandas**, **matplotlib** and **wordcloud** to compile a professional report.

DATABASE DESIGN PROJECT – University Project – Oshawa, ON

November 2023

- Database Design Project (**SQL**) Developed a management system for public to store, manipulate and search movies and tickets.
- Designed an ER-model and translated the model to relational schema for management system of movies.
- Created and implemented a desktop application using **JAVA**, **JDBC** and **Maven**.

SENTIMENT ANALYSIS ON TWEETS – Personal Project – Oshawa, ON

May 2023

- Utilized **R Studio** to perform sentiment analysis on 14,000 tweeter reviews of six major airlines.
- Performed data cleaning and text analysis to successfully identified the major complaints for each airline.
- Applied regression and machine learning to produce a final model with an accuracy of 88% and lift of 34%

SCIENTIFIC DATA ANALYSIS – University Project – Oshawa, ON

November 2022

- Led a comprehensive statistics analysis dashboard project, focusing on a large dataset related to hypertension.
- Employed advanced **Python** techniques for in-depth **data analysis** and **visualization**.
- Utilized various Python libraries such as **Pandas**, **NumPy**, and **Matplotlib** to manipulate data and create insightful **visual representations**.

Work Experience

DATA ANALYST INTERN: – CDMA, AT CAG OF INDIA – New Delhi, India

May 2023 - July 2023

- Designed and implemented **machine learning** models using **Python** and **TensorFlow** to analyze datasets exceeding 10 terabytes, enhancing the accuracy and efficiency of **audit processes** by 25%.
- Improved transparency in 30+ government sectors by 30% using **Python** for data analysis.
- Engaged with a team using tools like **GitHub** and **JIRA** to develop **analytics frameworks**, identifying **financial discrepancies** in over 50 reports.

SITE SECURITY SUPERVISOR – AMAZON – MOUNT HOPE, ON

November 2023 – April 2024

- Utilized modern computer technology and software proficiently to manage alarm system onsite, ensuring optimal security measures and operations.
- Achieved a 99% success rate in resolving technical issues by implementing systematic troubleshooting methods.
- Maintained meticulous documentation in ticket logs of technical support activities, tracking and documenting fourteen issue resolutions on average per eight hours to enhance accountability and traceability.