GAGANDEEP SINGH

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PROFILE

Currently enrolled in the "Data Science and Machine Learning" program at Red River College Polytech, I bring a strong foundation in data analysis and machine learning. Proficient in Python and SQL for data manipulation, I am eager to apply my theoretical knowledge to real-world applications. Passionate about leveraging data for meaningful insights, I am enthusiastic about contributing to the dynamic field of data science.

LinkedIn | GitHub

SKILLS

DATA SCIENCE & MACHINE LEARNING

- Python- Pandas, Scikit-learn, TensorFlow
- Data Analysis
- ML Models- Decision Trees, Regression, SVM
- Model Evaluation & Optimization
- Unsupervised ML
- Data Viz- Power Bi, Tableau
- Feature engineering

DATABASE MANAGEMENT

- SQL (CRUD, JOIN, Transactions)
- Adv. SQL (Constraints, Triggers, Views)
- Database Systems (SQLite, MySQL)
- NoSQL – MongoDB

TECHNICAL:

- Version Control (GIT)

SOFT SKILLS:

- Problem Solving and analytical thinking.
- Strong Organizational and time-management skills
- Ability to work independently and as part of a team
- Detail Oriented and able to handle multiple tasks simultaneously.
- Data Storytelling: Presenting data insights in a compelling way through narratives and visualizations.
- Continuous Learning: Proactively seeking new knowledge and skills to stay current with industry trends.
- Stakeholder Management: Identifying and understanding the needs and expectations of various stakeholders.

EDUCATION

DATA SCIENCE & MACHINE LEARNING DIPLOMA
Red River College

Current GPA: 4.361/4.5

2023 - 2025

COMPLETE MACHINE LEARNING & DATA SCIENCE BOOTCAMP
Zero to Mastery Academy (Udemy)

2023

AWARDS

2ND POSITION HOLDER, ELA HACKATHON
Hackworks

November 2023

TOP APPLIED RESEARCH ENTRY AWARD
Sustainable Development Goals (SDG)

April 2023

CERTIFICATIONS

MONGODB PYTHON DEVELOPER PATH
MongoDB – 2024

SQL: ADVANCED
Hackerrank - 2024

CERTIFICATE IN PYTHON & SQL
GTB Computer Education – 2023

DATABASES: ADVANCED TOPICS IN SQL
Stanford Online - 2024

GOOGLE DATA ANALYTICS
Google (Coursera) – 2023

CERTIFICATE IN MS OFFICE AUTOMATION
GTB Computer Education – 2023

PROJECTS

All the following projects are available in detail along with the data sets here: gdsai4903 (gdsai4903) / Repositories · GitHub

SQL - BOXSTORE DATABASE PROJECT:

Handled data from a box store, including product details like manufacturer, product name, model number, serial number, and price. The project involved data storage, normalization, database creation, data expansion, and visualization using an Entity Relationship Diagram (ERD).

Key Features:

- Stored data using MySQL for efficient handling.
- Normalized data to eliminate redundancy and improve performance.
- Created and populated the database with normalized data.
- Expanded data to simulate realistic scenarios.
- Visualized data relationships with an ERD.
- Technologies Used: MySQL, MS Excel, Draw.io

Link: https://github.com/gdsai4903/SQL-BoxStore

MACHINE LEARNING - AIRPLANE PASSENGER SATISFACTION (PYTHON):

The dataset contained survey responses from airline passengers. The objective of the project was to analyze the data to determine the factors contributing to passenger satisfaction and to predict whether a passenger is satisfied based on these factors. This analysis includes data cleaning, exploratory data analysis (EDA), feature engineering, and building machine learning models.

- Two machine learning models were evaluated to predict passenger satisfaction:
- Decision Tree Classifier
- Support Vector Machine (SVM)

Link: https://github.com/gdsai4903/airplane-passenger-satisfaction-prediction

PYTHON – ONLINE STUDENT PORTAL:

Developed a terminal-based student portal in Python with SQLite for data storage. It allows students to register, log in, manage personal details, upload documents, and pay course fees. The portal includes a status tracking system to monitor student progress and sends email notifications upon fee payment.

Key Features:

- User registration and login
- Profile and document management
- Course selection and fee payment
- Status tracking (Unknown, Candidate, Approved, Enrolled)
- Email notifications for offer letters
- Technologies Used: Python, SQLite, Email Service

Link: GitHub - gdsai4903/online_student_portal

POWER BI - AIRBNB DASHBOARD:

This project aims to provide a comprehensive overview of Airbnb listings in Winnipeg using interactive visualizations created with Microsoft Power BI. The dashboard allows users to explore the data and gain insights into different trends and patterns. The Power BI dashboard includes the following features:

- Geographical Analysis: Visualize the distribution of listings across different neighborhoods in Winnipeg.
- Pricing Insights: Analyze the pricing trends of listings based on room type, property type, and location.
- Availability Trends: Explore the availability of listings throughout the year.
- Review Analysis: Gain insights into the number of reviews and review scores for different listings.
- Interactive Filters: Use interactive filters to drill down into specific data points and customize the visualizations according to your needs.

Link: GitHub - gdsai4903/airbnb-dashboard