Aman Arora

Data Analyst

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PROFILE

Detail-oriented and results-driven Online Data Analyst with experience in enhancing digital map content and quality. Proficient in data verification, comparison, and analysis within web-based platforms. Skilled in conducting thorough research and ensuring data accuracy. Strong knowledge of national and local geography, with a passion for continuous learning. Adaptable and able to work independently while following project guidelines and managing flexible, task-based schedules.

CORE COMPETENCIES

- Digital Literacy
- Liner Algebra
- Data Validation
- Computational Geometry
- Data Processing

- Time Management
- Statistical Analysis
- Matplotlib
- Machine Learning
- SQL

- Problem-Solving
- Seaborn
- Deep Learning
- Big Data
- Tkinter

Languages: C, C++, Java, React.js, JavaScript, HTML5, Python

Analytics and Data Tools: Excel, Google Analytics, Sagemaker, ELK (Elasticsearch, Logstash, kibana)

PREVIOUS EXPERIENCE

Trainee Technical Support - Persistent Systems   Jul 2024 - Dec 2024

- Had the opportunity to delve into diverse technologies, gaining hands-on experience in **networking, cloud computing, VMware, and Nutanix.**
- Possesses a robust skill set and a comprehensive understanding of tech support intricacies.

PROJECTS

Chatbot

- The project aims to improve document retrieval in niche domains, specifically for Humber College's career services webpages. Using a semi-automated query refinement method, the project significantly enhances the accuracy of document retrieval, leading to better user experience and information access.
- I gained practical skills in enhancing user experience and improving information access within the specific context of niche career services information at Humber College.
- Have published research paper for this project - https://arxiv.org/abs/2412.17075
- Tools Used: **TypeScript, Python, Jupyter Notebook, JavaScript, CSS, HTML**

Music Player

- A music player application was developed using Python, Tkinter and Pygame, with a MySQL database for storing playlists. It offers core functionalities like play, pause, next, and previous tracks, and is compatible across various devices.
- This project provided a well-rounded learning experience covering GUI development, multimedia programming, database management, and fundamental software development practices.

- Tools Used: **SQL, Tkinter, Pygame Module.**

Feature Engineering of Bank Loan Data

- Proficient in data pre-processing, transformation, and feature creation. Experience in optimizing model performance through effective feature engineering techniques.
- Skilled in **data preprocessing**, **data cleaning**, **data transformation**, feature engineering, feature creation, feature selection and dimensionality reduction techniques. Proven ability to optimize machine learning model performance through effective feature engineering.
- Tools Used: **AWS Sagemaker**

Speech Sentiment Analysis

- Speech sentiment analysis was conducted using the CREMA-D dataset, which contains 7,442 audio clips of actors expressing various emotions.
- Librosa extracted MFCCs, and audio normalization ensured consistent features. This demonstrates the effectiveness of CNNs for this task.
- Gained practical skills in audio processing, feature extraction, **deep learning** with CNNs, and **sentiment analysis**
- Tools Used: **CREMA-D, CNN**

EDUCATION

Nova Scotia Community College - NSCC , Graduate Certificate, Full Stack Application Development	Sept 2024 – April 2025
Humber College , Ontario Graduate Certificate, Artificial Intelligence with Machine Learning	Jan 2024 – Aug 2024
Indira College of Commerce and Science, Bachelor of Computer Science	Aug 2020 – Jun 2023

CERTIFICATE AND LICENSES

- Organizational Culture - Linkedin
- Cloud Fundamentals - ExcelR
- Apply prompt engineering with Azure OpenAI Service - Microsoft
- Build natural language solutions with Azure OpenAI Service - Microsoft
- Robotics and IOT with arduino - Mechatron Robotics
- Cloud Computing basics - Techademy
- Get Started with Azure OpenAI Services - Microsoft
- Introduction to Generative AI - Google Cloud Training Online
- Azure AI Fundamentals - Microsoft