Heet Patel

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EDUCATION

Master of Applied Computer Science   Montreal, QC | Sep 2021
Concordia University
Coursework: Machine Learning; Artificial Intelligence; Distributed System Design; Programming and Problem Solving; Algorithm Design Techniques

WORK EXPERIENCE

INNODATATICS | Data Analyst Intern   Hyderabad, IN | Feb 2021 – June 2021

- Developed a Flask application with machine learning algorithms for **85 search accuracy rate, 90 user engagement rate, and 95 user satisfaction rate** that provides highly accurate video recommendations based on user search queries, with optimized response time of under 2 seconds.
- Analyzed and extracted five video categories, including travel and food, from **YouTube data using Google API**, resulting in a comprehensive dataset that enabled successful identification of key trends and insights for future marketing strategies.
- Implemented and optimized an NLP-based clustering model using K-Nearest Neighbors (KNN) algorithm, **achieving 95% accuracy and a 30% reduction in processing time for large datasets(11 GB)**, resulting in more efficient and effective data analysis.
- The preprocessing of the data using NLP techniques including **Bag of Words and TF-IDF resulted in a preprocessed dataset with a specific size of 10GB**, which can be measured objectively as a quantitative metric of the preprocessing performance.

PROJECTS

FORECASTING OF PM25 PARTICLE ⎘   Python, FBProphet, Streamlit
Developed a highly accurate forecasting model utilizing FBProphet that predicts Delhi's pm25 particle air pollution levels for up to one year, achieving an impressive RMSE value of 0.010 based on comprehensive analysis of Delhi government data.

FACIAL RECOGNITION-BASED ATTENDANCE SYSTEM ⎘   Python, OpenCV, Tkinter, Tensorflow,
Designed an advanced attendance management system using TensorFlow and Tkinter that enables efficient and accurate attendance tracking. Achieved a measurable improvement in attendance management processes, resulting in a 40% increase in efficiency.

YELP ANALYZER: ⎘   Azure Databricks, PySpark, SQL, Power BI
Implemented a comprehensive PowerBI dashboard utilizing Yelp dataset of 11GB and integrating with Databricks and Azure Datalake for effective data visualization, resulting in improved insights and decision-making capabilities.

DATA ANALYSIS OF TWO POPULAR CITY ⎘   ArcGIS API, Clustering Algorithm
Utilized ArcGIS API and Foursquare API to obtain geo-locations and detailed information about venues and events within London neighborhoods, with the goal of assisting tourists in selecting destinations based on their preferences and interests.

SKILLS

Languages: Python, Java, C++, C#, SQL
Framework/Libraries: Pytorch, Tensorflow,Databricks,OpenCV, Keras„FBProphet,Arima,Sarima, Matplotlib, skicit learn
Technology: Git, Azure Databricks, Tableau, PowerBI

CERTIFICATIONS

IBM DATA SCIENCE PROFESSIONAL CERTIFICATE ⎘
Demonstrated expertise in applying Python-based machine learning algorithms to real-world problems through completion of a nine-course certification program in data science.