

UMAR KHAN

Statistical Machine Learning and Data Science Specialist Student at UofT

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TECHNICAL/SOFT SKILLS

- Python, Pandas, Scikit-Learn, R, SQL, Tensorflow, Tableau, Machine Learning, Hadoop, Git, Scrum
- Communication, Passionate, Responsible, Curious, Adaptable, Driven

PROJECTS

Battle of Neighborhoods - Python

- Analyzed the neighborhoods in Toronto to find the best location to open a new Italian Cuisine
- Skills: Data Preprocessing, K-Means Clustering, Webscraping, Data Visualization
- Ideal for entrepreneurs to isolate areas in Toronto to open a new Italian Restaurant

Waste Classifier - Python, Tensorflow, Flask, HTML, CSS

- Created a web application to classify waste objects as Organic or Recyclable
- Skills: Computer Vision, Neural Networks, Web Development
- Perfect tool for people that have a hard time deciding which bin their trash goes into

Credit Card Fraud Detection - Python

- Analyzed different Machine Learning models to accurately detect credit card fraud between transactions
- Skills: Python, Scikit Learn, Local Outlier Factor, Isolation Algorithm
- Great tool to analyze transaction data and report fraud to the Fraud Department

Mini Music Sequencer - C

- Implemented basic functionality of a Music Sequencer
- Skills: C, Binary Search Tree Operations
- Allows for musical notes to be synthesized and played through the sequencer.

RELATED COURSES

IBM Data Science Professional Certificate (ID: GUME32SPSUZ)

- Extensive learning and application of data science methodologies. Developed informative models using various techniques in data analysis, data visualisation and used machine learning tools to predict future events, while also developing a deeper understanding of statistical programming in Python.

Data Science Bootcamp

- Developed a deeper understanding of statistical methods, Python (Pandas, TensorFlow), Business Intelligence tools like Tableau and Machine Learning to analyse and create a visual representation of the data.

Introduction to Probability

- Investigated the underlying mathematical aspect of statistical methodologies such as probability distributions, conditional probability, expectation, simulation and sampling distributions to generate solutions to certain scenarios.

EDUCATION

HBSc in Statistics Specialist (Data Science and Machine Learning Stream)

University of Toronto

September 2018 - Current

Toronto, Canada

CERTIFICATIONS

- IBM Data Science Professional Certificate
- Machine Learning with Python
- Google Tensorflow Developer (in Progress)
- AWS Cloud Practitioner (in Progress)

PUBLICATIONS

- Battle of the Neighborhoods - Towards Data Science
- Computer Vision using Tensorflow - Medium

EXPERIENCE

Senior Mathematics Instructor

Sharp Minds Tutoring

October 2019 - Current

- Taught intermediate mathematical concepts to multiple classes of 30 to 40 high school students in order for them to achieve grades above 90%.
- Demonstrated excellent communication skills as complex concepts were transferred over to students with clarity, resulting in 15% higher grades on assessments.

Java Instructor

Freelance

June 2018 - August 2018

- Taught basic to advanced programming concepts in Java to 3 to 4 students in one shift such as conditional statements, loops, inheritance, object orientated programming to increase their programming skills by 50%.
- Demonstrated high proficiency in java as students were able to understand code and apply it to 90% of their own projects.