Omar Irfan Khan

🗣 Guelph, Ontario, Canada 🗷 omar-irfan@hotmail.com 🛅 linkedin.com/in/omar-irfan-khan 🕳 https://github.com/omarirfa

SUMMARY

Seeking data scientist positions with masters in computer science from University of Guelph. Passionate about analyzing various problems and tackling them with innovative solutions.

SKILLS

Programming Languages: Python, C++, Java, Bash, SQL

Frameworks / Tools used: Tensorflow, Scikit-Learn, SimpleITK, OpenCV, Nibabel, Numpy, Keras, Pandas, Anaconda, Jupyter Notebook, Docker, Git, Matplotlib, Seaborn, Gnuplot, Matlab, Microsoft Azure

Languages: English, Urdu/Hindi and Arabic (Basic)

EDUCATION

Masters of Science in Computer Science (Image Processing Algorithms, Soft Computing, Advanced Soft Computing and Fundamentals of Computer Security)

University of Guelph · Guelph, ON · 2020 · 3.54/4.00

Bachelors of Science in Computer Engineering

American University of Ras Al Khaimah · United Arab Emirates · 2017 · 3.15/4.00

EXPERIENCE

Research Assistant - https://hdl.handle.net/10214/17779

University of Guelph

January 2018 - December 2019, Guelph, ON

- · Implemented a novel classification technique to automatically distinguish gliomas and normal brain images.
- · Designed a hybrid method involving density based algorithms and thresholding.
- · Attained an accuracy of 97% and minimal run time.

Teaching Assistant

University of Guelph

January 2018 - December 2019, Guelph, ON

• Taught and assisted professors with courses such as: Discrete Structures in Computing I, Structure and Application of Microcomputers, Software Engineering and Database Systems.

Cyber Security Intern

Advanced Team Solutions LLC

June 2016 - September 2016, Ajman, United Arab Emirates

- $\cdot \ \text{Organized and implemented several intrusion detection systems and commercial grade firewalls}.$
- · Installed new IP telephony and tape storage systems on site.
- $\cdot \ \, \text{Built a program to recover lost data from storage devices which saved the company from losing a major customer.}$

PROJECTS

Classification of cyber attacks in intrusion detection systems

- · Programmed various machine learning algorithms (random forest, K-Means, adaboost and feedforward neural network).
- · Evaluated against conventional deep learning models.
- · Determined deep learning models tend to outperform traditional machine learning algorithms by 20% in some cyber attacks.

Mobile spam filtering using a neural network

- · Constructed a multilayer perceptron to filter out spam messages.
- \cdot Examined against other classifiers in terms of precision, recall and accuracy.
- · Obtained above par results against traditional classifiers.

EXTRACURRICULAR ACTIVITIES

Table tennis, Volunteering and Hiking.