Muhammad Awais Jafar

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Applied and Adversarial Machine Learning, Privacy and Security, Computer Vision and Text Analytics

INDUSTRY EXPERIENCE

SlashNext, CA — *Research And Development Engineer*

August 2014 - April 2017

Real-time Network Traffic Analysis Pipeline Development
SlashClassify : ML based Malicious PDF detection framework
CNN based header anomaly detection
MySQL and NoSQL databases management
Deep Learning based Phishing Detection framework
Web Scraping, Data Munging and ETL analysis

EDUCATION

University of Illinois at Chicago, Chicago,IL — *PhD*

2018 - PRESENT

Overall CGPA : 4.0

Research Interests : Applied and Adversarial Machine Learning, Privacy and Security, Computer Vision and Text Analytics

Lahore University of Management Sciences, PK — *M.Sc*

2016 - 2018

Masters in Computer Science

Overall CGPA : 3.89

RESEARCH EXPERIENCE

University of Illinois at Chicago — Graduate *Research Assistant*

Advisor : Dr. Chris Kanich   August 2018 – PRESENT

Performing a study on **Privacy invasion by First party Data Leakage** to social media website like Facebook.

Working on **Adversarial Samples generation for obfuscating Deep Learning Based Intrusion Detection Systems**

SKILLS

Programming/Scripting Languages:

(Proficient) Python, SQL
(Familiar) Java, C++
,Javascript ,MATLAB

Frameworks and tools:
Tensorflow, Scikit-Learn, Keras, Pytorch, Django

AWARDS

Full Merit Scholarship
Lahore University of Management Sciences

Peter and Deborah Wexler Graduate Scholarship
University of Illinois at Chicago

Lahore University of Management Sciences — *Research Assistant*

Advisor : Dr. Fareed Zaffar   May 2017 - June 2018

Worked in a team of two for **Detecting kid-inappropriate videos** on child-centric content-sharing platforms like Youtube. Developed a multi-faceted Deep Learning Architecture consisting of CNNs and RNNs.

Developed a deep learning model for **Automated Diagnosis for Multi-drug-resistant Tuberculosis** using X-Rays and Biomarkers.

University of Iowa — *Research Assistant*

Advisor : Dr. Zubair Shafiq   Nov 2017 - June 2018

Worked in a team of two on an Adversarial Machine Learning model for **Obfuscating Authorship Attribution** . Worked with Sequence to Sequence models and Reinforcement Learning for Generating obfuscated text.