Atif Khurshid

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RESEARCH INTERESTS

Deep Learning • Computer Vision • Natural Language Processing

EDUCATION

2020 – 2022 **MS in Computer Science (GPA 3.9)**
National University of Sciences and Technology, Pakistan

Thesis Title: *Efficient Face Recognition for Large-scale Video Stream Analytics*
Supervisor: Dr. Moazam Fraz

Major Courses: *Deep Learning • Computer Vision • Natural Language Processing*

2016 – 2019 **BSc in Computer Science (First Class Honours)**
The Chinese University of Hong Kong, Hong Kong

Major Courses: *Artificial Intelligence • Machine Learning • Computational Learning Theory*

2014 – 2016 **Cambridge International A Levels**
Roots Millennium Schools, Pakistan

Subjects: *Computer Science • Mathematics • Physics • Chemistry • English*

PROJECTS

2021 **Transfer learning grammar for multilingual surface realisation**

Implemented a transformer model to study the extent of cross-lingual transfer learning of grammatical features in multilingual surface realisation.

2019 **Online machine learning-based framework for network intrusion detection**

Final Year Thesis: Extendible framework for incorporation of arbitrary machine learning models in online network intrusion detection systems.

2018 **Comparing machine learning models for horse race predictions**

Implemented and compared the performances of several classification and regression models in predicting the results of horse races using data from Hong Kong Jockey Club.

2017 **Heart disease classification using deep residual learning**

Implemented a Deep Residual Neural Network in TensorFlow to detect Atrial Fibrillation using the dataset from PhysioNet Computing in Cardiology Challenge 2017.

ADDITIONAL SKILLS

- Proficient in Python, Scikit-learn, TensorFlow, PyTorch and OpenCV
- Experienced in Linux and Git
- Familiar with C/C++, Java, JavaScript and Node.js

PUBLICATIONS

2021 **A. Khurshid**, S. Latif and R. Latif, "Transfer Learning Grammar for Multilingual Surface Realisation," 2021 International Conference on Digital Futures and Transformative Technologies.