CHIDUBEM IDDIANOZIE

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EDUCATION

Ph.D Computer Science
University College Dublin
2018 – 2020

M.Sc. Computer Science (2.1)
University of Southampton
Sept. 2016 – Sept. 2017

B.Sc. (Hons.) Computer Science (89%)
University of Jos
Sept. 2010 – Sept. 2014

EXPERIENCE

Machine Learning Research Intern
IBM Research
June 2019 – Present Dublin,Ireland

- Developed and deployed a **Python** package for AutoML classification on time-series with **Docker** and **Kubernetes**.
- Built proof-of-concept for a new weakly-supervised learning methodology on time-series data using **Python**, published findings from experiments as a journal paper and applied for a patent.

GitHub Campus Expert
GitHub
Feb. 2019 – Present Dublin,Ireland

- Enrich the students' experience by organising a diversity tech talk with industry leaders as invited speakers, providing mentorship and career opportunities to students.
- Organized and presented at technical workshops with over 250 student attendees.

Senior Teaching Assistant
University College Dublin
January 2018 – Present Dublin,Ireland

- Improved student performance in the first semester by ≈3% through revising the lab curriculum and administration of the First year programming modules (**C** and **C++**) using automated assessment feedback.

Data Science Intern
Ordnance Survey Great Britain
June 2017 – Sept. 2017 Southampton,UK

- Developed an improved graph mining pipeline using **Python** and **Networkx** that discovers non-spurious communities in heterogeneous graphs, reducing computational cost by ≈10%.

SKILLS

Languages: Python, R, Java, C, C++
Frameworks: Sci-kit learn, Keras, Tensorflow, Apache Spark, Docker, Kubernetes, nose
OS: Unix, Linux, Windows

HONORS & AWARDS

- UCD-CS Postgraduate Research Grant
- Max-Planck-Gesellschaft Travel Grant
- British-Chevening Scholarship
- Federal Government Scholarship for outstanding undergraduates

PROJECTS

Transfer Learning on Heterogeneous spatial graphs (Doctoral project - ongoing)
- Efficient transfer learning for knowledge discovery in large graphs optimized for cost and correctness.

NLP for processing handwritten literature texts
- Developed a pipeline in **Python** that transcribes handwritten literature texts, trains and validates models for authenticating authorship of medieval texts.

Image Abstraction in resource constrained scenarios
- Proposed an algorithm that transforms images to a very-low dimensional space in order to reduce size and cost of transmission by mimicing an encode-decode paradigm.
- Implemented this algorithm as a pipeline and developed a proof-of-concept using **Python**.

Admissions recommender system
- Proposed a variant of the knapsack problem as a solution to the the admissions problem in Nigerian tertiary institutions.
- Implemented and developed this solution as a software package using **Java** that makes objective recommendations for admissions into tertiary institutions.

EXTRA-CURRICULAR

ECML-PKDD Summer School, Wurzburg: Sept. 2019
Turing Institute Data Study Group, Bristol: Aug. 2019

PUBLICATIONS

- A Transfer learning paradigm for spatial networks - SAC 2019
- Three journal papers currently under review.