CHIDUBEM IDDIANOZIE

A0.12 School of Computer Science, University College Dublin
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SKILLS

Adept Data Scientist versed in the theory and practise of machine learning development, including **Statistical learning theory**; **feature extraction** and **generation**; **dimensionality reduction**; **(hyper-)parameter optimization**; **model development**, **fine-tuning**, **selection** and **deployment**; **A/B Testing** and **Scientific Writing**. Excellent Software Engineer with over five years experience and fluent in **Python**, **R**, **Java**, **C**. Proficient in **Keras**, **Tensorflow**, **Git**, **Apache Spark** and **Hadoop**. Extensive experience in **automation**, **experimental prototyping**, **shell scripting**, **linux system administration** and **networking**.

EXPERIENCE

IBM Research Ireland June – August 2019
Machine Learning Research Intern *Dublin, Ireland*

· Developed a **Python** package for AutoML classification on time-series to be deployed with **Docker** and **Kubernetes**. Proposed alternate data encoding techniques for time-series data using **Python**, reported findings from experiments in a journal paper (under review) and applied for a **patent**.

University College Dublin January 2018 – present
Senior Teaching Assistant *Dublin, Ireland*

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

BrightTalk September 2017 – January 2018
Data Scientist *London, UK*

· Developed a visualization dashboard for monitoring global customer trend using **Python** and **Javascript**. Carried out an organization-wide data audit and presented a report which highlighted the demerits of using off-the-shelf ML models.

Ordnance Survey Great Britain June – August 2017
Data Science Intern *Southampton, UK*

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

EDUCATION

University College Dublin, Dublin *January 2018 - Present*
PhD Computer Science
Thesis: Transfer Learning for Heterogeneous spatial graphs - *Efficient transfer learning for knowledge discovery in large graphs optimized for cost and correctness.*

University of Southampton, Southampton *September 2016 - September 2017*
MSc. Computer Science. Class: 2.1
Thesis: Image Abstraction for Transmission Systems
Major: Machine Learning and Data Science

University of Jos, Jos *September 2010 - Septemeber 2015*
B.Sc.(Hons.) Computer Science. Final Grade: 89%
Thesis: Admissions Recommender Systems
Minor: Applied Mathematics

PUBLICATIONS AND OUTREACH

Robust representations for Transfer Learning on Heterogeneous spatial graphs Dec. 2019
BAI Workshop - Neurips *Vancouver, Canada*

Online echo chambers and our confirmation biases: Why technologists should not get tired of talking about them November 2019
GitHub Universe *San Francisco, USA*

A Transfer Learning Paradigm for Spatial Networks April 2019
ACM Symposium on Applied Computing - SAC *Limassol, Cyprus*

City Sense: Personal Sensing for Urban Spaces January 2019
Applied Machine Learning Days Conference *Lausanne, Switzerland*

* Two journal papers currently under review

PROJECTS

Using NLP to identify authorship of medieval 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 for resource constrained environments
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 in **Python**.

An efficient admissions recommender system
Proposed a variant of the knapsack problem as a solution to 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.

AWARDS AND HONORS

UCD-CS Postgraduate Research scholarship August 2017
Awarded a fully-funded research scholarship for 4 years valued at €120,000 *Dublin, Ireland*

Google Travel Grant December 2018
Full travel grant to attend the Neurips Conference *Montreal, Canada*

Max-Planck Gesellschaft Travel Grant August 2017
Full travel grant to attend the Max-Planck Pre-Doctoral summer school *Saarbrucken, Germany*

British Chevening Scholarship August 2016
Awarded a prestigious Masters scholarship worth £35,000 *Southampton, UK*

Federal Government Scholarship September 2013
Full Scholarship for high-performing undergraduates *Jos, Nigeria*

ACTIVITIES

GitHub Campus Expert February 2019 – Present

· Tasked with enriching students' experience in my local community via support from GitHub. Organised a diversity tech talk with industry leaders as invited speakers, with mentorship and career opportunities offered to students. Organized and presented at technical workshops in the school with an aggregate attendance of over 1500.

ECML-PKDD Summer School September 2019

Alan Turing Institute Data Study Group August 2019

Citadel Securities Datathon November 2018