

Adam El Kholy

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A passionate student reading Computer Science with Artificial Intelligence BSc at the University of Bath. Studied at the University of Helsinki during study year abroad 2022-2023, currently ranked as the 31st best university in Europe. Studies maintain a specific focus on AI and Machine Learning, with personal interests in Natural Language Processing, Bayesian Learning and Ethics of AI.

Education

University of Bath: Bachelor of Science in Computer Science with Artificial Intelligence and Study Year Abroad 2020-2024

University of Helsinki: Study Year Abroad in Computer Science 2022-2023

Expected Grade: First Class Honours

Fourth Year (avg. 75%)

- Natural Language Processing, Reinforcement Learning, Dissertation in Deep Learning Image Classification

Third Year: Study Year Abroad, University of Helsinki

- Computer Vision (MA), Probabilistic Cognitive Modelling (MA), where MA denotes a Masters level course

Second Year (avg. 74%)

- Machine Learning, Foundations of Visual Learning

First Year (avg. 79%)

- Artificial Intelligence, Discrete Mathematics and Databases,

Bournemouth Grammar School, 2013-2020

A Levels: Computer Science (A*), Mathematics (A*), Physics (A), Psychology (A) 2020

GCSEs: 11 qualifications including eight 8s, one 9 (Physics), and two 7s 2018

Technical Skills and Projects

- Fluent in Python, Java, Visual Basic, and familiar with C based languages and WebGL. Quick to learn when dealing with new territory
- Vast experience working with essential machine learning Python modules; Tensorflow, Keras, Scipy, Numpy, HuggingFace along with environments such as Jupyter, Colab and Kaggle
- Multitude of Python ML projects undertaken in the following areas: Natural Language Processing, Convolutional Neural Networks, Bayesian Machine Learning, Reinforcement Learning, Computer Vision and more
- Currently undertaking dissertation research, Machine Learning Classification for AI-Generated and Human Made Artworks, implementing a CNN architecture to solve a novel image classification task
- Personally created and published a dataset on Kaggle, containing over 270,000 artwork images, which was subsequently used for research by a leading American data scientist
- Deep theoretical knowledge of AI and ML, with a thorough understanding of widely used techniques in the field and the mathematical motivations behind them
- Highly capable in a team environment: co-operated with seven others over the course of a year to develop a prototype ticket reselling platform, involving prolonged co-ordination and team work
- Proficient in AGILE methodology, having successfully followed a scrum based framework across multiple group projects
- Well versed in academic research, having reviewed dozens of the newest machine learning papers as part of a university module
- Skilled in writing technical reports, achieving a 1st across a multitude of university research reports such as a 4000+ word project proposal, going into significant scientific detail on the topic of Chess AI using GANs and Style Transfer models
- Excellent orator, personally commended for presentation skills during a group project when pitching the product to investors

Accomplishments

- Sponsored by cyber-security company Netcraft for outstanding results during first year of university, achieving grades in the top 25 out of 200+ students in my cohort
- Consistently high academic performance throughout university, achieving a 1st in nearly every single module and scoring full marks on multiple coding assignments
- Awarded the right to study at the University of Helsinki, competing against other top candidates for a position at a globally renowned institution currently ranked within the top 100 best global universities
- Selected as research candidate by a leading expert in the field of Bayesian Machine Learning for final year dissertation project
- Adapted to the necessary challenges involved in moving to a new country, assimilating to Finnish culture and dealing with the language barrier
- Learned a tier 4 language, namely Finnish, to a conversational level within one year of study

Previous Employment

University of Bath - Tutor

September 2023 - Ongoing

- Tutored first year students for the Artificial Intelligence module at the University for multiple sessions per week
- Completed the First Steps Into Teaching program from the University, developing the necessary skill set for the safeguarding and teaching of students
- Developed teaching resources and techniques for explaining high level concepts to tutees completely new to the field of artificial intelligence

Hoburne Park - Food and Beverage Staff

June-September 2021-2023

- Worked with a large team changing year on year in a popular family holiday park during peak season across three sectors (cafe, bar, and restaurant)
- Developed essential customer service skills and prioritised a sizeable list of tasks under tight time constraints
- Further improved team working skills in a dynamic, high pressure environment
- Trained junior staff and undertook more senior position during later years at the company with more responsibility and accountability

University of Bath - Student Ambassador

June 2022

- Worked as a representative for University of Bath during prospective student open days, speaking with hundreds of parents and students per day
- Answered intensive questions from parents and presented the University in a positive light

Other Skills and Hobbies

Driving license: Full driving license with 0 points

Office: Proficient in Word, Powerpoint and L^AT_EX

Languages: Fluent in English, Finnish at a conversational level

Hobbies: Reading classical fiction and philosophy, Playing chess online and against friends, Boxing training 2-3 times per week, Watching films, Playing tennis

References

Emelie Barman, Computer Science Lecturer and Dissertation Supervisor, University of Bath, eacb20@bath.ac.uk

Dr Harish Tayyar Madabushi, Computer Science Lecturer in Natural Language Processing, University of Bath, htm43@bath.ac.uk

Dean Cox, Head of F&B, Hoburne Park, dean.cox@hoburne.com