

Alexandros Kastanos

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EDUCATION

UNIVERSITY OF CAMBRIDGE

Master of Philosophy in Machine Learning and Machine Intelligence
Oct 2018 - Sept 2019, Magdalene College
MPhil class representative

Thesis title: Uncertainty and confidence scores for sequence data (71%)

UNIVERSITY OF THE WITWATERSRAND

BSC IN ENGINEERING (ELECTRICAL)

Graduated with Distinction
Jan 2014 - Dec 2017

Project title: Adaptive digital hearing aid that adapts to a changing acoustic environment (90%)

PROGRAMMING SKILLS

Languages:

Python • C++ • SQL • Matlab • Julia

Frameworks:

PyTorch • scikit-learn • Tensorflow •

FastAPI • unittest

Ops:

CircleCI • Docker • Argo CD • Terraform

GRADUATE COURSES

Probabilistic Machine Learning •
Computer Vision • Speech Recognition •
Weighted Automata • Deep Learning and
Structured Data • Computational
Neuroscience • Advanced Machine
Learning

PERSONAL PROJECTS

Health Aim

Proposed a computer vision based mapping tool to predict areas with poor access to public health in Uganda for the 2019 Geneva Challenge.

Deep Learning Indaba 2019

Volunteered as a practical session tutor where I tested and reviewed source material, and assisted participants during practical sessions.

PERSONAL DETAILS

Location: London, United Kingdom.

Citizenship: U.K. and South Africa

Languages: English (1st) • Greek (2nd) • Afrikaans (2nd)

GitHub: <https://github.com/alecokas>

EXPERIENCE

DELIVEROO | MACHINE LEARNING ENGINEER II

June 2021 - Present | London, United Kingdom

- I am embedded in the pricing team where I own the production pricing algorithm. This involves technical maintenance of the service, partnering with product and strategy on experiment design and execution, and maintaining data monitoring systems.
- Additionally, I delivered a new machine learning based pricing model that is responsive to changing consumer demand and unit economics.
- Mentored junior team members and set up onboarding sessions for new joiners.
- Tech stack includes Python, Argo, Kafka, sklearn, and Snowflake.

OCADO TECHNOLOGY | MACHINE LEARNING ENGINEER

October 2019 - June 2021 | Hatfield, United Kingdom

- I was responsible for the research and implementation of novel machine learning models. I worked closely with a small cross-disciplinary team and own my projects from inception to deployment.
- Regularly took part in cross-department knowledge sharing sessions where I have presented machine learning topics, such as Graph Neural Networks, Natural Language Processing, and Recommender Systems.
- Host regular catch-ups with our internal clients to discuss requirements and manage third party software relationships.
- Built and deployed a customer service conversational AI solution.
- Tech stack includes Python, PyTorch, Docker, and GCP.

PERALEX ELECTRONICS | SOFTWARE ENGINEER

Jan 2018 - August 2018 | Cape Town, South Africa

- Worked in an agile team environment to introduce deep learning approaches to replace existing passive radar detection systems
- Designed and implemented a number of signal detection systems using Keras
- Used Python for dataset synthesis and management

PERALEX ELECTRONICS | SOFTWARE ENGINEERING INTERN

Nov 2016 - Jan 2017 | Cape Town, South Africa

I contributed to the multirate filtering algorithm in the open source Julia DSP library and developed a tool to enforce coding conventions and assists source code management. Languages used during internship: Julia, C++, and Perl.

SELECTED AWARDS

- MIT Press poster award, Deep Learning Indaba (2019)
- University of Cambridge Department of Engineering Scholarship (2018)
- Dean's List (top 10% of my class) throughout undergraduate (2014-2017)
- Top mark in Software Development III (84%) (2017)
- 2nd place poster at the electrical engineering department open day (2017)
- **Top student in third year electrical engineering** (2016)
- Top mark in Probabilistic System and Signal Analysis (99%) (2016)

SELECT PUBLICATIONS

- A. Kastanos, A. Ragni, M.J.F. Gales, "Confidence Estimation for Black Box Automatic Speech Recognition Systems Using Lattice Recurrent Neural Networks", in ICASSP, 2020.
- A. Kastanos and T. Martin, "Graph Convolutional Network for Swahili News Classification", in EAACL AfricaNLP workshop, 2021.