Alexandros Angeli

in alexandrosangeli | ✉ alexandrosangeli@gmail.com

EDUCATION

University of Glasgow   Sep. 2019 – 2023
BSc Honours in Computing Science   Glasgow, UK

- **Grade:** First Class Honours
- **Dissertation Title:** Protein domain boundary prediction based on deep neural networks (Grade: 20/22)
- **Electives:** Machine Learning, Deep Learning, Computer Vision, Text as Data, Research Methods and Techniques
- **Extracurricular:** Tech Society Board Member, Hackathon Participant, Code Olympics Participant, FinTech Competition Participant

EXPERIENCE

JP Morgan Chase & Co.   Sep. 2023 – Present
Software Engineer   Glasgow, UK

- Maintaining and improving data caching, processing and distribution systems written in Java and deployed globally
- Responsible for conducting thorough debugging and error-fixing processes to rectify issues promptly and prevent financial losses
- Deploying new software versions to clients worldwide over the weekends, ensuring global impact and minimal disruption to operations

The Cyprus Institute   Jun. 2023 – Aug. 2023
Machine Learning Engineer Intern   Nicosia, CY

- Contributed towards the investigation of predicting the concentration of pollutants at sea level from climate data
- Conducted statistical analyses and visualised data to identify important features for machine learning models
- Compiled a training dataset by collecting and processing climate data using Python
- Created experimental neural networks using PyTorch for future use in scientific research after the internship
- Delivered a presentation to the Intern's cohort, presenting my findings and work conducted throughout the project

HF Markets   Jun. 2022 – Aug. 2022
Software Developer Intern   Larnaca, CY

- Improved production code written in C#/C++ by optimising code and implementing new features requested by clients
- Improved the maintainability, re-usability and testability of existing projects by refactoring their source code using suitable design patterns and architectures such as Dependency Injection and the Onion Architecture
- Boosted the productivity of the Platform Administrators' team by writing scripts using the trading platform's language (MQL4/5) to automate tasks the team was responsible for

University of Glasgow   Sep. 2021 – Jan. 2022
Teaching Assistant   Glasgow, UK

- Undegraduate demonstrator for Level 1 and Level 2 classes
- Responsible for addressing student inquiries and providing academic support
- Worked together with students to complete exercises developed to reinforce concepts covered in class, ensuring students' comprehension of the material

The Cyprus Institute   Jul. 2021 – Sep. 2021
Summer Intern   Nicosia, CY

- Contributed towards the development of an open-source Python API for Lattice QCD applications
- Extended the API's functionality by adding new functions for performing common I/O operations on NumPy binary files which automated tasks that were previously performed manually
- Accelerated high-coverage testing by writing automated tests

PROJECTS

Undergraduate Dissertation
- Investigated the use of neural networks for inferring structural properties of proteins from their amino acid sequence
- Experimented with the use of state-of-the-art Protein Language Models for encoding amino acid sequences
- Collected and pre-processed adequate data from public databases to build training and validation datasets
- Tested the final model on an independent dataset provided by CASP, and in some tasks, the model showed to compete with state-of-the-art models
- Authored a comprehensive 40-page dissertation outlining research methodologies, experimental design, and findings

Plankton classifier
- Trained a neural network to classify low-resolution plankton images into 12 different classes with 60% accuracy
- Pre-processed a small, unbalanced dataset using data augmentation techniques
- Performed hyperparameter tuning and experimented using different architectures, such as a combination of an Autoencoder and Recurrent Neural Network

Subreddit classifier
- Trained a classifier in Python to predict the subreddit a Reddit post belongs to with 83% accuracy
- Experimented with different machine learning algorithms, such as Naive Bayes and Multinomial Logistic Regression and produced a report documenting and comparing their effectiveness
- Utilised natural language processing techniques such as tokenisation, word-embeddings and lemmatisation

VOLUNTEERING

University of Glasgow   Sep. 2020 – May 2021
Class Representative   Glasgow, UK
- Responsible for collecting feedback from students in order to convey their opinions and concerns to academic staff
- Participated in routine meetings with academic staff to relay student feedback

University of Glasgow   Sep. 2020 – May 2021
Student Mentor   Glasgow, UK
- Provided guidance, support, and advice to a select group of first-year students as their mentor
- Conducted regular check-ins with mentees to ensure they received the necessary support and assistance
- Delivered presentations prior to exam periods, offering tips and strategies for effective studying and preparation

Lifeguarding Club Larnaca   Jul. 2020 – Aug. 2020
Instructor   Larnaca, CY
- Responsible for instructing a group of 18 fourteen-year-old boys in lifeguarding methods and techniques
- Achieved a 100% pass rate for students in their lifeguarding exams, demonstrating effective teaching and preparation

ONLINE COURSES

Bayesian Statistics: From Concept to Data Analysis   Jun. 2023
University of California, Santa Cruz   Offered through Coursera
- **Credential ID**: YL4VCUAPSRN7

Mathematics for Machine Learning Specialization   Sep. 2022
Imperial College London   Offered through Coursera
- **Credential ID**: 2MFVL5QXH7KB

Parallel, Concurrent, and Distributed Programming in Java Specialization   Sep. 2022
Rice University   Offered through Coursera
- **Credential ID**: K4BPD9SLSFFS