Mustafa Omar

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ABSTRACT

I am currently progressing in my MSc at the University of Nottingham, studying Machine Learning and applications in Science. I've completed my BSc in Physics with astrophysics at the University of Kent achieving second class honours. My set of skills span a wide range including the following:

As a foundation for all skills, proficiency in; Physics and Mathematics.

As a Machine learning engineer, proficiency in; AI and applications of AI to science.

As a programmer, proficiency in Python, Deep learning frameworks, linux, cloud computing (AWS) and general software development workflows (Git, Docker).

EDUCATION

University of Nottingham   Nottingham, UK
MSc, Machine Learning / AI in science   *September 2021-Present*

University of Kent   Canterbury, UK
BSc, Physics with Astrophysics   *September 2017-2020*

EXTRA COURSES

Online course   Udemy
Advanced Data Structures   *January 2022- Present*

Online course   Udemy
Complete linear algebra: theory and implementation in code   *January 2022- Present*

EXPERIENCE

Private Tutor   Jun 2021-November 2021
A-Level Mathematics and Physics   *London, UK*

Freelanceer: Web developer   Jun 2020
Freelancer.com   *London, UK*

Self directed/employed: Software Engineer   2017-Present
PracticePractice LTD   *London, UK*

PROJECTS

Blog-brainstorm.netlify.app | *R, Markdown, GIT, Latex*   January 2022 – Present
- A blog where many topics in current research are explained and discussed.
- Topics include: AI; Scientific history and figures; Fundamentals of critical thinking; and Self optimisation guides for students.

Reinforcement Learning: Flight controller | *Python, GIT, Numpy, Mathematics*   January 2022
- Applying a Reinforcement algorithm to teach an agent how to control a drone

PracticePractice.net | *Python, GIT, Docker, AWS, PostgresSQL, Latex*   June 2020 – Present
- An educational platform that delivers content directly to students in an effective and simple style

TECHNICAL SKILLS

Languages: Python, R, JavaScript, SQL
Frameworks: Pytorch
Developer Tools: Linux, GIT, Docker
Libraries: Numpy, Scipy, SK-learn, Pandas, Matplotlib
Applications: Vim