Abel Kent

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Professional Profile

Dedicated and hard-working London based graduate experienced in software development and data science. Excellent technical and interpersonal communication skills, with practice in technical presentation and neural network construction. Intrigued by applications of machine learning, evolutionary computation, and computer vision in an expanding modern world.

Core skills

- Programming languages:
  - Python (including TensorFlow, Keras and PyTorch machine learning libraries)
  - SQL
  - Scheme
  - EOL
  - Java
  - Haskell
  - Prolog
  - Git
- Expert user of Microsoft Office Suite standard and equivalent software
- Experienced in the development of machine learning solutions in the context of computer vision and deep learning
- Extremely strong verbal and written communication skills
- Practical knowledge of a wide range of project development methodologies
- Experienced with a wide range of team management tools and software
- Practiced in working responsibly and safely in an electronics lab environment
- Experienced with code development in a multi-programmer version-controlled context
- Experience with creating and giving technical presentations
- Strong scientific research and writing ability

Education and Qualifications

MSc – Advanced Computer Science – University of York *(2021 – 2022)*

Notable Modules: Cryptography Theory & Application, Model-Driven Engineering, User Centred Design for Interactive Technologies, Forensic Analysis of Cyber Incidents, Rigour in Secure System Development & Assessment

Thesis: "Abnormal motion detection with trajectory and deep learning" -summarise ur thesis

BSc (2:1) – Computer Science – University of York *(2018 – 2021)*

Notable modules: Computer Vision, Vision and Graphics, Introduction to Neural Networks, Fundamentals of Machine Learning, Evolutionary Computation, Artificial Intelligence

Dissertation: "Human Action Recognition from video sequences using Artificial Neural Networks"

Research history

Master's Thesis *(2022)*

An independent research project into developing a Python PyTorch based autoencoder for the detection of abnormal trajectories in the inD dataset.

Postgraduate User Design Project *(2021)*

Leading member of a group of fellow students in the research and design of a mobile app to be used by residents and tourists to navigate the city of York.

Dissertation Research Project *(2020 – 2021)*

An independent research project into developing a Python Keras based CNN based method for Human Activity Recognition in video sequences.

Additional skills and interests

- Acting & Theatre
- Gaming

Awards and certificates

- Jack Petchey Award

References available upon request