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ADRIAN LIU

Data scientist who enjoys engineering machine learning solutions and likes to be presented problems where one can experiment with novel approaches. An individual with an optimistic mindset and is motivated by progress thus seeking expertise to continue my growth.

EXPERIENCE

SITA, London — Data Scientist

OCT 2017 - PRESENT

Model designer/creator for baggage recognition computer vision task of detecting the type and color of a bag defined by industry standards. (CNN, Random Forests, LightGBM | R, Python, Docker)

Created and implemented face liveness detection machine learning algorithm to detect fake faces coming through airport smart gates. (SVM | Python)

Created NLP based Twitter alert system, with dashboard, for detecting emergencies at specific airports. (VADER, Rule-based | R, R Shiny)

TECHNICAL SKILLS

Python (scikit-learn, Keras, TensorFlow, SHAP) - Fine-tined different CNN architectures for object detection and instance segmentation tasks (RetinaNet, MaskRCNN). Created scripts to integrate with other systems (REST API, ActiveMQ).

R (caret, data.table, R shiny) - Chosen language for quick data wrangling and quick predictive performance on structured data due to the powerful packages of data.table and caret.

Linux - Using an Ubuntu image as chosen environment for data science tasks due to having the good support.

Microsoft Azure - Deployed ML Pipelines (VMs, storage accounts, etc.) The cloud computing stack I am most familiar with.

EDUCATION

Lancaster University — MSci Mathematics (First Class Honours)

2013 - 2017 - Dissertation Title: Lueck Approximation Theorem | Supervisor: Gabor Elek

INTERESTS

Japanese Language - Like to read Japanese novels due to influences from their media culture. Passed Japanese Language Proficiency Test N1 at 89th percentile.

InTheGroove - Based on open source rhythm game Stepmania. Created an arcade-like set-up at home. High adrenaline fitness with limitless potential for improvement.