

Kyle Au

INTRODUCTION

I am a physics graduate who has a passion in artificial intelligence, so I changed my career path three years ago

PUBLIC GIT PROJECT

Kaggle competition - U.S. Patent Phrase to Phrase Matching (Link)

- The competition is to build a NLP model to predict phrase to phrase similarity
- the workflow of our project:
 - 1) crawl the patent context description from website and use it as features
 - 2) fine tune different kind of advanced BERT model to predict phrase to phrase similarity
 - 3) try different advanced method from research paper to improve the process
 - 4) use the CV stacking ensemble method to improve the prediction from BERT model
- **Competition ranking is 526/1889 teams (top 27.8%) (Link)**
- **Git repository (Link)**

Resume maker (Link)

- Generate the CV automatically by python code
- **Upload this project in Git is aim to demo coding skill (Link)**

JOB EXPERIENCE

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EDUCATION

MSc in Information Technology (Part Time)- The Hong Kong Polytechnic University

2019-09 - 2021-08

- ML, NLP, computer vision, Big data, finance and database

BSc Applied Physics (First Class Honours) - City University of Hong Kong

2015-09 - 2017-05

- MATLAB, Thermodynamics, Fluid mechanics, Electromagnetism, Quantum Physics, Solid state and Materials Characterization tech.

Associate Degree in Engineering - Hong Kong Community College (HKCC)

2013-09 - 2015-05

- C++ language, General Physics, Engineering mathematics, SolidWorks and AutoCAD

ACHIEVEMENT

SAP marketing cloud (1902) implementation

SAP global certification

College of Science and Engineering Dean’s list in the semester A of 2016/2017

City University of Hong Kong Dean's list

College of Science and Engineering Dean’s list in the semester B of 2016/2017

City University of Hong Kong Dean's list

The whole CV is generated by python code

Personal image

Information

xx-xx-xxxx
phone: xxxxxxxx
email: auyin1111@gmail.com
Github: Auyin111 (Link)
Expected salary: xxx to xxx

SKILL

Programming language

Python, C++, MATLAB

Machine learning

Packages: sklearn, imblearn, CatBoost
Ensemble model: bagging, boosting, stacking
Estimators: e.g. Random forest, Catboost
GradientBoosting, logistic regression

Deep learning

Packages: Pytorch, Keras
RNN, LSTM, GRU, CNN
Batch Normalization, multi sample dropout
Layer Normalization
Stochastic Weight Averaging (SWA)

NLP

BERT (deberta, albert, roberta)
Word2Vec, BOW

Data visualization

Package: wandb, tensorboard, sns
plotly (include dash)
Software: Tableau, Qlikview

OS

linux, Window, IOS

Cloud platform

Google (GCP), Amazon (AWS)
Lambdalabs, Paperspace

Version control tool

Git

Database

MongoDB, MYSQL, Bigquery, DynamoDB

Container tool

Docker

Pipeline and scheduler

Airflow, crontab

Crawling package

selenium, BeautifulSoup

Other IT skill

API, OOP

Campaign management tool

SAP (marketing cloud), Adobe campaign

LANGUAGE

Cantonese, English, Mandarin