

# YELMAGAMBETOV AZAMAT

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## EDUCATION

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### City University Of Hong Kong

Sep 2019 – May 2023

*B.S. in Data Science - CGPA - 3.68*

*Hong Kong*

- **Relevant Coursework:** Linear Algebra, Multi-variable Calculus, Advanced Statistics, Convex optimization, Data visualization, Database systems, Big Data, Machine Learning, Financial Engineering, Financial Data Analytics, Data Intelligence in Action, Computer Vision.

## EXPERIENCE

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### AI Mnemonic, Startup

Dec 2021 – Jan 2022

*AI Programmer*

*Hong Kong*

- Study and Analysis of Photoplethysmography (PPG) data. Find patterns in data that would help to extract blood pressure from PPG signal
- Converted Matlab code to Python for feature extraction, noise filtering and machine learning algorithms.
- Trained and tested the machine learning models for the estimation of the Blood Pressure using PPG signal.

### Department of Information Systems, CityU

Mar 2020 - Dec 2020, Oct 2021 - Dec 2021

*Research Assistant*

*Hong Kong*

- Used Python's Data-Science toolkit to examine and generate insights on a dataset of Academic Journals.
- Built a webscraping tool to collect Kaggle and Linkedin user profiles using Selenium, BS4.
- Study importance of teams formation and collaboration for success in Kaggle competitions using its publicly available metadata.

### Department of Mathematics, CityU

Jul 2020 – Aug 2020

*Research Assistant - Image Segmentation Project*

*Hong Kong*

- Worked with a research group to test MLP and U-Net neural networks for segmentation of glomeruli in microscopic images of kidney.
- Studied Virtual Adversarial Training (VAT), a semi-supervised training algorithm. Incorporated VAT loss along with U-Net's cross-entropy, to improve segmentation accuracy.

## TECHNICAL SKILLS

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**Programming Languages:** Python, SQL, C++ (Beginner), Matlab

**Python Libraries:** Pandas, NumPy, SciPy, Matplotlib, Seaborn, Scikit-Learn, OpenCV, PyTorch.

**Technologies/Tools:** Linux, GitHub, PostgreSQL, Tableau, Git, VS Code, Jupyter

## PROJECTS

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### Sustainable Investments Data Aggregator

May 2022 - Present

- Our team has received a seed fund of HK\$100,000 under the HK Tech 300 Programme. We are currently working on developing a data aggregator platform that would use NLP model to predict companies' ESG scores through financial reports and news.
- Tested numerous NLP techniques (topic modelling, NER), frameworks (NLTK, GenSim, etc), and services (AWS textract) to create an NLP data pipeline that would meet project requirements.
- Tested and fine-tuned different NLP models for sentiment analysis (FinBert), Q&A (Roberta), information extraction and other tasks.

### Champion of CityHack 2022, FinTech Track

Jan 2022

- Developed a ESG data aggregator platform demo that uses NLP model to predict companies' ESG scores through reports, news.

### PetFinder.My - Kaggle Contest

Nov 2021 - Dec 2021

- Implemented an algorithm to predict the "Pawpularity" score (i.e. cuteness of a pet on a 0-100 scale) of a thousands of a pet photos.
- Transfer learning using Resnet-50, and EfficientNet B0 on stratified 5-folds CV. Minimized RMSE by applying stronger augmentations, hyperparameter tuning and better learning rate scheduling.
- Attempted to treat a problem as a classification, by scaling a target and using Binary cross-entropy loss.

## AWARDS/ACHIEVEMENTS

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- Awarded Dean's list in 3 semesters for excellent academic performance.
- Awarded a Top Scholarship for International Students for 4 years.