Kat Yang

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Computer Science student majoring in Data Science and Artificial Intelligence. Highly adept at problem solving and creative thinking. Excellent interpersonal skills and very comfortable working in a team environment.

EXPERIENCE

CSIRO's Data61, Brisbane — *Undergraduate Researcher*

DECEMBER 2020 - PRESENT

- Research on Deep Learning project - Few-Shot Object Detection on Underwater Images
- Perform research on HPC server using deep learning frameworks, e.g., PyTorch, TensorFlow
- Collect appropriate information for analysis
- Prepare and maintain datasets for the project
- Administer and update all records on research process

Surfers Hawaiian, Gold Coast — *Front-end Developer*

JANUARY 2020 - MARCH 2020

- Communicating with the business owner to establish requirements for company website
- Using HTML, CSS, Bootstrap and JavaScript to build out solution

Omega Solar, Gold Coast — *Front-end Developer*

JULY 2019 - FEBRUARY 2020

- Communicating with the business owner to establish requirements for product
- Using HTML, CSS, Bootstrap, JavaScript to build out solution
- Creation of visual assets using InDesign and Photoshop

EDUCATION

Griffith University, Gold Coast — *Computer Science*

JANUARY 2019 - JULY 2021

- Majoring in Data Science and Artificial Intelligence
- Griffith Award for Academic Excellence - 2019 (Credential)
- Key Courses: Big Data Analytics, Perceptual Computing, Intelligent Systems, Computing Algorithms, Engineering Mathematics I, II (Linear algebra / Calculus), Object-Oriented Programming, Statistics

TECHNICAL SKILLS

Language

- Python
- C++ / C
- SQL
- R

Web Development

- HTML
- CSS
- JavaScript
- Bootstrap
- Responsive Web design

Others

- Unity
- InDesign
- Photoshop
- Gephi
- Tableau
- HPC

SOFT SKILLS

- Problem solving
- Creative thinking
- Interpersonal skills
- Research skills

AWARDS

Griffith Award for Academic Excellence - 2019 (Credential)

PROJECTS

Fashion item classifier using CNNs and Cascade Classifier (Python – TensorFlow, Keras, OpenCV)

Developed a Fashion item classifier using both Convolutional Neural Network (CNN) and Cascade Classifier. The CNN model is used to classify the fashion items, and Cascade Classifier is used to detect the human body. The MNIST Fashion Dataset is used to train and test a CNN model. The classifier is developed using the CNN model which achieved 91% accuracy.

Keywords: Computer vision, CNN, Deep learning

https://github.com/jungheeyang/Fashion_item_classifier

Building a Neural Network trained and tested with the MNIST handwritten digit database (Python)

A Neural Network was written in Python using NumPy to recognize handwritten digits. Gained clear understanding of forward and backward propagation and updating weights and biases.

Keywords: Neural Network, Image processing, Deep learning

https://github.com/jungheeyang/Neural_network

Traveling Salesman Problem solver (Python, MySQL, PyQt5)

Built a Traveling Salesman Problem solver, using the Simulated Annealing algorithm, and a GUI using Python. The application provides the shortest route and displays visualizations of the paths. It is retrieves source data from a remote server using MySQL and writes results to same server.

Keywords: NP problem, computing algorithm, MySQL, GUI

https://github.com/jungheeyang/Traveling-Salesman-Problem

CERTIFICATIONS

Udemy — *C Programming for Beginners – Master the C language*

- Fully completed and certificate obtained.
- Course content: C Language fundamentals.

Udemy — *Responsive Web Design: HTML5 + CSS3 for Entrepreneurs*

- Fully completed and certificate obtained.
- Course content: HTML5, CSS3, CSS Box Model, Responsive Web Design

HOBBIES & INTERESTS

- Baking/Cooking
- Drawing
- Painting
- Crafting
- Gardening

ACHIEVEMENTS

- Open drivers' license
- Native Korean speaker
- Fluent spoken/ written English
- Basic Japanese

VOLUNTEERING

St Vincent De Paul

- Volunteer at Support Centre
- Assisted with client consultations and the administration of financial aid.

REFERENCES

Available upon request.