TE-HOU (EDDIE), TSENG

@ eddietseng1129@gmail.com   📞 +1 858-281-9417   in linkedin.com/in/eddie-tseng-460308115/   % eddietseng1129.github.io/resume/

EXPERIENCE

Software Engineer
Corning Inc.

📅 Feb 2020 – Present   📍 Corning, NY

- Improved inspection efficiency and accuracy by using VGG-19 and RF model (With large data and fine labeling, the accuracy improved 34% when compared with the based classifier)
- Fine-tuned every model such as data preprocessing and hyper-parameter tunning
- Compared different CNN models and finalized the best model for inspection systems in plants' line
- Programmed scripts using Python for further data analysis (improving models)

Research Assistant
Swartz Center of Computational Neuroscience

📅 Nov 2019 – Feb 2020   📍 San Diego, CA

- Improved accuracy from 65% to 97% for Pupil tracking system when finding Region of Interest(ROI) by implementing YOLO object detecting system using Python.
- Programmed scripts using Python for labeling training data
- Wrote manual scripts to teach other team members how to use the model for finding ROIs in the Pupil tracking system

Software Engineer Intern
Corning Inc.

📅 Jul 2018 – Aug 2018   📍 Taichung, Taiwan

- Improved inspection efficiency and accuracy by programming a script for operators using Halcon and C (Can detect 4 times more defect images than the original program)
- Developed rules for classifying defect images by using image processing techniques
- Secured Best Presentation format in the final presentation contest
- Participated in Six Sigma training programs and learned concepts such as DMAIC and DMADV

Intern
Ericsson

📅 Jul 2015 – Aug 2015   📍 Taipei, Taiwan

- Responsible for solution support for the Connected Vessels Project of U-Ming Marine. It was a global project which provides both data and voice communication between vessels and fleet management at U-Ming HQ

PROJECTS

E-commerce data analysis
University of California, San Diego

📅 Jan 2019 – Mar 2019   📍 San Diego, CA

- Developed Pantaho Kettle script to clean data and load the data on local Postgres database. Using SQL to find the most relevant features for impacting the company revenue
- Using PySpark regression (DT, MLP, CNN) and classification (DT) to predict the review score, giving the product's price, shipping fee, delivery time and category. MSE of regression is 1.2 after 150 epochs and classification accuracy is 74% after 100 iterations

Kaggle Humpback Whale Identification Challenge
University of California, San Diego

📅 Mar 2018 – Jun 2018   📍 San Diego, CA

- Implementing several classical CNN and pre-trained models, such as Siamese Network and VGG-19, to calculate the similarity and identify whale species (rank 135 of 494 and beat the benchmark in Kaggle)

EDUCATION

MS in Electrical and Computer Engineering
University of California, San Diego

📅 Sep 2017 – Jun 2019   📍 San Diego, CA

- Machine Learning and Data Science
- GPA: 3.4/4.0

BS in Communication Engineering
National Taipei University

📅 Sep 2012 – Jun 2016   📍 Taipei, Taiwan

- GPA: 3.5/4.0

SKILLS

Programming
- Python, C#, JavaScript, C++, Matlab, Halcon

Data Analysis
- SQL, Pentaho, Hadoop, Pandas

Machine Learning
- Data Preprocessing, Supervised/Unsupervised Learning, Deep Learning
- TensorFlow, Keras, scikit-learn, Pytorch

Web Development
- HTML, CSS, React.js, Node.js, MongoDB, RestFul API

Language
- Chinese (Mandarin) : Native
- English : Fluent

EXTRACURRICULAR

Self-Learner
Automate Tasks

📅 Feb 2020 – Present   📍 Corning, NY

- Scraped stock information online and send it back to smartphones when meeting the criteria.
- Interacted with people online as a Robot (chatbot). Trained the Robot by scrapping dataset online and machine learning to find the best response.

Founder
Dancing Club (ShenAo Elementary School)

📅 Jul 2016 – Jul 2017   📍 Keelung, Taiwan

- Founded Dancing Club for not only for remote area students but also for families
- Arranged shows for members to show their skills after every semester
- Raised funding for Dancing Club and remote area students' education

Team Member
University Pop Dance Group (NTPUPDC)

📅 Sep 2012 – Jun 2016   📍 Taipei, Taiwan

- Organized competitions for all undergraduate students in Northern Taiwan
- Raised funding for Northern Taiwan Dance Competitions