Rachel Wang Werkstudent available from 1st,April

Data-Driven Problem Solver And Cross-Functional Team Player

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Github: https://github.com/linwang98/Projects

HIGHLIGHTS

- Experience and solid academic background in medical image- and data processing algorithms and models as demonstrated by courses of Deep Learning (1.0), Pattern Recognition (1.0) and Computer Vision
- Proficiency in coding and modeling using PYTHON to apply statistical techniques Regression and Classification, Unsupervised and Supervised Learning(CNN, RNN, ResNet, GAN)
- Experience of working in an agile working environment, values a team spirit attitude and supporting the team to reach excellence using data

WORKING EXPERIENCE

China Southern Power Grid Zhuhai, China (World's Top 500 Ranking 105th) 07/2016-07/2018

Position: Junior Electrical Technician of Testing-Team

1. **Hardware Test experience**
- Assisted testing experiments of hardware in 3 new 220kV substations under the time pressure before the deadline
- Analyzed electrical experimental data, identified problems with experimental data and proposed solutions
- Maintained and managed testing data documentation

2. **Quality Inspection and Quality Management experience**
- Solution of the defect optimization won the second prize of QC Award on 2017

3. **Agile working Experience**
- Cross functional collaboration experience

PROJECT EXPERIENCE

1. **Research for topic "Development of a realistic data augmentation method for images of letters extracted from ancient printed books."**
- Image preprocessing (Otsu binarization, filtering out the ink and noise)
- Trained DCGAN to generate images, which enhanced the diversity of the training data

2. **Development of a basic face recognition system (video)**
- Implement k-NN for clustering and classification with sklearn of Python which achieved detection accuracy of 90%

3. **Project of topic "Development of Writer Handwriting Identification System "**
- Accelerated growing identification accuracy +7% which achieved 88.6%

4. **Automatic detection of cracks from solar cells (image)**
- Training Resnet in PyTorch which achieved 70% classification accuracy

5. **Speech to Text Translation using Google Cloud API**

EDUCATION

Master of Engineering: Medical Engineering (Image- and data processing)

Friedrich-Alexander-Universität, Erlangen 10/2019-now

Bachelor of Engineering: Electrical Engineering and Automation

North China Electric Power University 10/2012-06/2016

- University scholarship

SKILLS AND LANGUAGE

Program language: Proficient with Python, JavaScript, C

Software: PyCharm, VS Code, Google Cloud API, Git, Visual Studio, LaTeX, Office (Word, Excel, PowerPoint), CAD

Language: English(B2), Deutsch(B2), Chinese (native speaker)