Danli Yan

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EDUCATION

University of Electronic Science and Technology of China *07/2017 to Present*

M.S. Electronic and Communication Engineering

IELTS: 7.0 average (Listening 8.0; Reading 7.5; Speaking 6.5; Writing 6.0)

GRE: V(154) R(167)

University of Glasgow *09/2013 to 06/2017*

B.Eng. Electronics and Electrical Engineering with Honors of the Second Class (First Division)

University of Electronic Science and Technology of China *09/2013 to 06/2017*

B.Eng. Electronic Information Engineering

GPA: 3.39/4.00 or 80.09/100

Main courses (All the undergraduate courses were taught in English):

Matrix Theory, Stochastic Process, Graph Theory, Fuzzy Logics, Probability Theory and Mathematical Statistics, Signals and Systems, Digital Signal Processing, Dynamics and Control, Digital Communication, Real Time Computing Systems and Architecture, Numerical Analysis.

PROJECT EXPERIENCE

User Behavior Prediction, OGeek Algorithm Challenge (top55/2888) *12/2016 to 06/2017*

- Preprocess data by removing punctuation and redundant samples and executing word segmentation operation.
- Construct features based on the keyword similarity of word2vec and sentence similarity of Word Mover Distance.
- Extract principle features the main features based on Simulated Annealing and Greedy Algorithms.
- Build LightGBM model to determine the optimum classification threshold.

Machine Learning and Deep Learning Training Program *06/2018 to 09/2018*

- Learned and understood the principles of NN, SVM, K-means, PCA and realized algorithms with MATLAB.
- Learned the structure of CNN, RNN, LSTM and trained car detection, face recognition, neutral style transfer models on TensorFlow and Keras with python.

Fuzzy Logic Coursework Project *05/2017*

- Programmed in MATLAB to realize the method proposed in a published paper called *Adaptive Sensor Selection for Multi-Target Detection in Heterogeneous Sensor Networks.*
- Applied both one-pass method and back-propagation method to design a Fuzzy Logic System based on generated Mackey-Glass chaotic time series and plotted their Root Mean Square Error (RMSE) respectively.

Micro-weather Station, Personal Project *09/2016 to 05/2017*

- Built an self-powered embedded system (based on Arduino Mega 2560) and programmed to achieve the abilities of environmental data acquisition, external storage, online/ local real-time navigation.
- Programmed sensing, storage, visualize, wireless communication modules with peripherals including SPI, I2C.
- Cooperated with a cloud sever company to upload real-time information on its cloud database via Wi-Fi.
- Evaluated the weekly performance of prototype and compared the data stored in local memory with that in
- cloud database.
- Completed 5000-word English report and 15-minute oral presentation

Automatic Obstacle Avoidance Robot, Coursework Project *09/2015 to 04/2016*

- Achieved functionalities such as navigation, image processing, robot arm control with team members.
- Organized meeting and allocated tasks to ensure the progress agreeing with Gantt Chart

ADDITIONAL EXPERIENCE

Teaching Assistant: Electronic System Design Course *09/2018to 12/2018*

- Led laboratory sessions to class of ~45 sophomores for one semester
- Assisted in lab maintenance and organization
- Graded problem sets, lab reports and exams

English Academic Writing Training *06/2016to 07/2016*

- Month long training on technical writing and oral presentation skills performed by professional groups from University of Glasgow
- Mastered the skills of logical organization, figure description, and paraphrase.
- Surveyed the development of Wireless Power Transmission, wrote a 1200-word review and delivered oral presentation in front of 5 assessments and 15 participants.

- HONORS

- *2017* Academic Scholarship
- *2017* UESTC Excellent Graduation Thesis
- *2016* National Encouragement Scholarship
- *2014* National Encouragement Scholarship
- *2013* National Encouragement Scholarship

- SKILLS

C Python JavaScript MATLAB Web-front Latex PCB ARM Arduino