Wang Liang

NLP programmer + machine/deep learning + mathematics

Contact

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Interests

unsupervised learning
+ clustering algorithms
+ dimensionality reduction
text analysis
+ entity resolution
+ distributional semantics
harmonic analysis
+Fourier transfer
+Wavelet analysis
Riemann Hypothesis

Algorithms

PCA/SVD/SGD
CNN/RNN/LSTM
DFS/BFS/TF-IDF
NB/LR/SVM
KNN/XGBoost/LDA
Word2Vec/Doc2Vec
DFT/FFT
Tensorflow/Keras/Pytorch

Languages

Python
+ numpy/scipy/pandas
+ scikit-learn
+ jieba/ltp
+ gensim/word2vec
+ matplotlib
+ PyCharm
+ IPython
C/C++
+ makefile/imake
+ Serial port, CAN port
+ CORBA(TAO)
Jupyter notebook
JSON
Tk/Tcl
Perl
Qt
SQL
Java
LaTeX

Computing

Linux
+ sed/awk/grep/vi/grub
+ SystemRescueCd
+ minicom/vnc/ftp/ssh
+ Anaconda
Common
+ jekins
+ git
+ clearcase

Experience

09/2018-now	Artificial-Intelligence-for-NLP China Team	NLP Programmer

News view point extractor, Beijing subway transfer search, DFS/BFS graph search, TF-IDF, Deep Learning Algorithm and wordcloud produce

5/2013-09/2018	GE Healthcare	Lead Software Engineer

Image Quality process and Auto Test tool CI/OEM develop leader, Discovery XR656 HD, Optima XR646 HD, Discovery XR656 plus, Optima XR646 Fixed Radiography Systems Lead Software Integrator, Platform of X-Ray Exposure control system developer, Offline software tools such as Ghost, Linux SystemRescue, ISO build and CD burn strong contributor

4/2011-5/2013	China Nuclear Control Systems Engineering Co., Ltd	Senior Software Engineer

Nicsys1000 system developer, design various HMI with QT for Nuclear Power Plant DCS(Distributed real-time control system), build SVN server for team, bring team member to QT conference for new technology deep dive

Education

2008-2011	M.A., Computer Science	ShangHai University

Graduate course sequences in Combinatorics/Graph Theory, Probability, plus Computer Engineering

2003-2007	B.S., Mathematics	JXUFE

Pure mathematics concentration. Courses in Analysis, Algebra, Combinatorics, Probability

GitHub Pages: https://wangliangster.github.io Note: all blue fonts are available links

Projects

09/2009-Now	Detail List: More Detail Experiences, you can click Detail List to view
10/2018-01/2019	News view point extractor NLP Project

Use word2vec and TF-IDF, probability Algorithms, this project aims to for any input News text, extract the main view point of each speaker, present it as format "who said what"

11/2018-12/2018	Beijing subway transfer search Hobby Graph Search Project

Use BFS/DFS/A* Algorithms, demo a Graph search solution, land on Beijing Subway transfer search

3/2017-5/2018	Reli GE Project

Reliability is an auto test tool for GE products internal CI, developed with python, tk/tcl, shell scripts, ssh, minicom etc skills under Linux, involved random algorithm testing instead of old tool which use fixed steps method record by VNC, improve coverage rate greatly, own high reputation

10/2013-9/2017	Everest G1/G2/G3 GE Project

Everest G1/G2/G3 are a sequences of GE's Radiography Family products which developed by global team, as a Lead Software Integrator, I am along with them all the way

Miscellaneous

2018	Rank in Institute #1	GeeksforGeeks
2017	BUILDING ESSENTIAL LEADERSHIP SKILLS (BELS)	Crotonville Leadership
2016	Liang Wang; "Fourier series deep explanation"	GE Internal Seminar
2010	Liang Wang; Songnian Yu; Feng Chen: "A new solution of node splitting to the R Tree algorithm"	IEEE