

Zhenye Na

Urbana, IL 61801 • Tel: 475-300-8646

• E-mail: zna2@illinois.edu • Kaggle • Github • LinkedIn

Objective: Machine Learning & Data Scientist

EDUCATION	University of Illinois	Urbana-Champaign, IL
	<i>Master of Science</i> , Advanced Analytics, May 2019 Concentration in Computational Science & Engineering. <i>Related Coursework:</i> Data Structures, Algorithms, Machine Learning, Database Systems, Computer Vision, Deep Learning. Dalian University of Technology (DUT) <i>Bachelor of Engineer</i> , Harbor, Waterway and Coastal Engineering, July 2017	GPA: 3.9/4.0 Dalian, China GPA: 3.67/4.0
TECHNICAL SKILLS	Languages: Python, Matlab/Octave, Java, R, C/C++, SQL, L ^A T _E X, Julia. Web Development: HTML, CSS, JavaScript, PHP. Applications: Git, SVN, VirtualBox, MySQL, IntelliJ IDEA, Xcode.	
WORKING EXPERIENCE	Engineering Intern , Dalian Highway Construction Group	09/2016 - 11/2016
	<ul style="list-style-type: none">Analyzed road maintenance data with VBA and realized data visualization in EXCEL.The final plan I participated in drawing successfully saved cost of road maintenance by 20%.	
PROJECTS	Mining Rig Assembly	04/2018
	<i>Mining Rig Assembly is a web application that allows users to browse, store rig setups and estimate the performance of setups in an integrated website.</i> <ul style="list-style-type: none">Implemented with HTML, CSS, PHP and JavaScript in Cpanel environment.Designed database in MariaDB engine using data crawled from Amazon API.Added features like product information visualization tools, price notification and product payback period computation.	
	Music Generation using GAN and RBM	04/2018
	<ul style="list-style-type: none">Preprocessed classical music in MIDI files and represented in matrix format for later use.Using GAN with LSTM units as generative model for creating new music.Improved music generation result using RBM model with Gibbs Sampling.	
	Pokemon GAN	03/2018
	<ul style="list-style-type: none">Implemented DCGAN for generating new Pokemons in Tensorflow and Pytorch separately.Selected Wasserstein distance as the loss function and augmented dataset for more reconstruction options.	
	Nonlinear Component Analysis as a Kernel Eigenvalue Problem	11/2017
	<ul style="list-style-type: none">Outlined and implemented algorithm/Pseudo-code of Kernel function.Implemented USPS Handwriting Recognition via SVM given by KPCA and Simple PCA separately.	
LEADERSHIP	Director , DUT International Communication Association	10/2015-8/2017
	Vice President , Student Union, Faculty of Infrastructure Engineering, DUT	9/2013-6/2015