Sicong Zhao

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EDUCATION

Duke University   May 2020
M.S. Interdisciplinary Data Science, GPA 3.66/4.0   Durham, NC

Huazhong University of Science & Technology   Jun 2013
B.E. Electronic Science and Technology   Wuhan, China

EXPERIENCE

Data Science Intern - Duke Health   06/2019 - 05/2020
- Collaborated with Duke University Hospital to conduct mortality risk evaluation of cardiac decompensation patients.   Durham, NC
- Converted rules in *"Hospital Toolkit for Adult Sepsis Surveillance" by CDC* into Python algorithms.

Product Manager - Aibee   12/2017 - 08/2018
- Designed and launched AI-driven customer insight products as the first PM.   Beijing, China
- Cooperated with 3 $2.7-$35B clients and integrated solutions into clients' BI systems.
- Best Employee Award in 2018 (1/31)

Product Cofounder - Zhonggua Technology   03/2017 - 12/2017
- Established a freelancer platform that connected top companies' employees and startups.   Beijing, China
- Acquired by Aibee on Dec 2017.

Director of Mobile Platforms - Genetalks Biotechnology   02/2016 - 02/2017
Digitalized Genetalks' sales channel and established an app for post-sales service.   Beijing, China

Senior Product Manager/Product Manager - Baidu   07/2013 - 12/2015
- Led design for FaceYou App. Acquired 5M users in Dec 2015, ranked 3rd in AppStore China.   Beijing, China
- Initiated innovative AI assistant project BaiduEye, coordinated product design & development.
- Outstanding Employee Award in 2015 (1/~150)

PROJECTS

Face Generation and Interpolation: Trained a face generator using a Generative Adversarial Network architecture (BEGAN) and celebrity face dataset. Also conducted an interpolation analysis (generate faces gradual change between 2 destination faces) which showed an understanding of the face structure has been developed in generator. GitHub

Emotional States: A research project about if emotional states can be inferred from wearable activity sensor data. Trained a CatBoost models on Fitbit data alone with personality, physical health, and demographic data collected from 153 participants. Model performance is precision: 0.595, recall: 0.877, F1: 0.75. GitHub.

Friendship Inference based on Network Analysis: Studied how personality traits (Big Five) relate to friendship. Used a multivariate linear model to uncover a significant negative correlation between the personality trait agreeableness and friendship rating (p-val=0.017). GitHub

Seinfeld TV Script Generation: A text generation model using LSTM and Word2Vec, trained on Seinfeld TV script, then generate new script based on a given starting text sequence. GitHub

More data science projects can be found in GitHub, other projects in Portfolio: **www.SicongZhao.com**

AWARD & PATENT

Best Use of Outside Data @DataFest 2109 (Duke)   04/19

LED Light visual feedback help users locate the direction of head-mount devices' camera   WO2016176950A1

WRITE-UPS

Demystify Transposed Convolutional Layers by Visualization and PyTorch   Link

Value Investing in Python   Link

Insights of Google Employees from Glassdoor Data   Link

SKILLS

Tech: Deep Learning (FNN, CNN, RNN, GAN, Auto-encoder), Reinforcement Learning, Machine Learning, Stochastic Processes, Bayesian Analysis, Statistical Modeling, Text Analysis, Python, R, Tableau, SQL

Design - Data Visualization (Tableau, Keynote), Interface Design (Photoshop, Sketch, AI), 3D Design (Cinema 4D)