

Damin Zhang

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EDUCATION

Purdue University

M.S. in Computer and Information Technology
AKRaNLU Lab

West Lafayette, IN

Aug. 2020 – Present

University of Massachusetts Amherst

B.S. in Computer Science
Minor in Mathematics, Chancellor's Award, Dean's List

Amherst, MA

Sept. 2015 – May 2019

EXPERIENCE

Research Assistant

Purdue University

Aug. 2021 – Present

West Lafayette, IN

- Designing and testing verbal communication skills on conversational AI for smart energy management
- Conducting research on explainable methods for bias detection and mitigation

Research Intern

DataPi Club Tsinghua University

Nov. 2019 – Present

Beijing, China

- Exploring and categorizing latest publications on NLP topics
- Conducting research on intersections between NLP and ML techniques

Engineering Intern

Zhongyuan Bank

Sept. 2019 – Jan. 2020

Zhengzhou, China

- Used Dictionary Compressing to improve information retrieval response time
- Conducted data labeling and cleaning

PROJECTS

Bias in Statements | *Python*

Oct. 2020 – Nov. 2020

- Constructed neutral point of view (NPOV) corpus from Wikipedia
- Parsed and converted statements into feature vectors
- Used Machine Learning technique to identify the bias-inducing word, and replaced it via analogy on word embeddings
- Used RASA framework to transform the model into a conversational AI

Ph.D. Programs Admission Visualization | *Python, JSON, JavaScript, HTML/CSS*

Dec. 2018 – Apr. 2019

- Implemented pipeline for automatic information gathering and cleaning
- Visualized data to show in-depth analysis on an interactive dashboard

Auto Quote | *Python, SQL, JavaScript, HTML/CSS, Django, Git*

Jan. 2018 – Apr. 2018

Project for Liberty Mutual

- Adapted Facebook Graph API to log users' data and stored it in NoSQL database
- Visualized data to show in-depth analysis on an interactive dashboard
- Used Machine Learning technique on the back-end for adaptive weights

SKILLS

Technical Languages: Python, R, SQL, Java, JavaScript, HTML/CSS, \LaTeX

Frameworks: Django, Flask, Node.js

Libraries: pandas, numpy, scikit-learn, pytorch, tensorflow, gensim, beautifulsoup, matplotlib

Languages: English, Chinese(Mandarin)

REFERENCES

Dr. Julia Rayz