Martin Michalski

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Education

University of Illinois at Urbana-Champaign   May 2023
Bachelor of Science in Computer Engineering   GPA: 3.94/4.00

Experience

Research Assistant, University of Illinois at Urbana-Champaign   December 2021 – Present
Professor Jiawei Han

- Conducted a comparative analysis of various weakly supervised taxonomy-completion models, identifying the various models' strengths and weaknesses
- Wrote scripts to for the **visualization** of model results
- Currently performing analyses on the potential of **BERT** and **GPT-2** to augment the most performant taxonomy-completion model

Research Assistant, University of Illinois at Urbana-Champaign   September 2021 – January 2022
Professor Roxana Girju

- Performed in-depth exploratory analyses of a corpus containing narrative accounts of hypothetical patient-doctor interactions, exploring empathy in a clinical setting
- Wrote a module for common pre-processing and **visualization** steps in analyses
- Used common **topic modelling**, **dependency parsing**, and **part-of-speech tagging** methods to extract insight from the corpus

Data Science Intern, Motorola Solutions   May 2021 - August 2021
Online

- Built proof-of-concept solutions for anomaly detection in 911 call center network traffic, with the goal of detecting hackers
- Made use of various unsupervised forecasting and clustering models

Software Engineer Intern, Motorola Solutions   June 2020 - December 2020
Online
Private Tutor, Varsity Tutors   October 2019 - February 2020
Online
HIP Program Mentee, Northrop Grumman   September 2017 - June 2019
Rolling Meadows, IL

Skills & Achievements

Programming Languages: Python, C, JavaScript, C++, Dart, Java, Mathematica

Frameworks: Pandas, Spacy, NLTK, Datatable, Plotly, Sklearn, PyTorch, Selenium, Sphinx, among others

Achievements: 3rd place in design competition for ECE 391 (Computer Systems), National Merit Scholar

Foreign Language: Polish