Nour K. Jedidi

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EDUCATION

Carnegie Mellon University **Pittsburgh, PA**

***M.S. in Language Technologies,* School of Computer Science** **August 2022**

- Relevant Coursework: Algorithms for NLP (PhD), Bayesian Statistics (PhD), Machine Learning for Text Mining

B.S. in Statistics and Machine Learning **May 2020**

- Relevant Coursework*:* Data Mining, Machine Learning, Deep Learning (PhD), Deep Reinforcement Learning, Time Series Analysis, Multivariate Statistics (PhD)

RESEARCH INTERESTS

- Information Retrieval, Deep Learning, Natural Language Processing, Bayesian Statistics, Topic Modeling

RESEARCH and PROFESSIONAL EXPERIENCE

Carnegie Mellon University, Language Technologies Institute **Pittsburgh, PA**

Graduate Research Assistant – Professor Jamie Callan **August 2020 – Present**

- Researching and exploring methods for improving pretrained language models (i.e., BERT, XLNet, T5) for text retrieval and conversational search.

Tepper School of Business **Pittsburgh, PA**

Research Assistant – Professor Peter Stuettgen **February 2020 – June 2020**

- Developed and evaluated algorithms for estimating Hierarchical Hidden Markov Models (HHMMs) through simulations.

Columbia Business School **New York, NY**

Research Assistant – Professor Bernd Schmitt **May 2019 – May 2020**

- Leveraged text mining techniques to assess ideology-related research in the academic marketing literature.
- Utilized an LDA topic model on the text data to identify the themes of ideology research in marketing.

Remesh **New York, NY**

Research Intern **May 2019 – August 2019**

- Researched and implemented natural language processing and machine learning algorithms for the Remesh product platform to enable marketers to learn about their customers in real-time.
- Developed an SVM classifier to predict whether moderators are asking poll-like or open-ended questions with 95% precision.
- Modeled the complexity of open-ended questions based on the variance of responses to similar questions.
- Constructed various semantic similarity algorithms using deep neural networks and unsupervised methods to group together responses to open-ended questions.

Bowery Capital **New York, NY**

Summer Analyst **May 2018 – August 2018**

- Analyzed the competitive landscape for various portfolio companies and potential investments.
- Lead the process of drafting and presenting an investment memo for a potential portfolio company
- Built a database for portfolio company SupplyShift consisting of over 160 companies' environmental commitments relating to climate change, water, deforestation, energy, and waste.

Carnegie Mellon University School of Information Systems and Management **Pittsburgh, PA**

Research Assistant – Professor Vibhanshu Abhishek **August 2017 – May 2018**

- Analyzed the effects of product listing attributes, such as discounts, ratings and price, on consumer behavior using ad-click data from Flipkart, a leading ecommerce website.

PROJECTS

Multivariate Statistics: Multivariate Analysis for Actionable Market Segmentation **Spring 2020**

- Performed a combination of k-means clustering, multinomial logistic regression, and discriminant analysis to segment customers of an online learning platform and make strategic marketing recommendations.

Deep Learning: Attention-based Speech-to-Text Deep Neural Network **Fall 2019**

- Designed an end-to-end speech recognition system for acoustic modeling to transcribe speech utterances to characters using a combination of RNNs and CNNs.

SKILLS

Programming: C, Python, R, SAS (Base, Macros, Graph, Stat), PostgreSQL

Software/Frameworks: PyTorch, TensorFlow, Keras, ggplot, BeautifulSoup, Microsoft Office (Word, Excel, and PowerPoint), SPSS