Dwija Parikh

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EDUCATION

University of Washington Expected Jan 2024
M.S. in Computational Linguistics (NLP) *Seattle, WA*
Relevant coursework: Shallow & Deep Processing for NLP, Statistical NLP, Syntax Engineering, Phonetics

University of Houston 2022
B.S. Honors in Computer Science, B.S. in Mathematics (Data Science Option) *Houston, Texas*
Minor: Data & Society
Relevant coursework: Advanced NLP, AI, Stochastic Processes, Cybersecurity, Data Structures & Algorithms

SKILLS

Programming	Python, C/C++, R, Java, SQL, Matlab
Tools & Libraries	Git, Numpy, NLTK, spacy, Tensorflow, PyTorch, Huggingface, sk-learn, Tableau, Hadoop
Methods	Machine Learning (clustering, regression, classification), NLP (Transformers, LLMs), graph theory, data visualization, A/B testing

EXPERIENCE

Research Intern Jun 2021 - Aug 2021
Hewlett Packard Data Science Institute *Houston, TX*

- Performed analysis on medical data of 65k patients to deliver insights for the process of care in cancer treatment
- Engineered a framework for modeling cancer patient pathways using network analysis tools (DAGs)

Research Assistant Aug 2018 - Aug 2021
RiTUAL Lab at the University of Houston *Houston, TX*

- Conducted research in multilingual NLP using techniques like M-BERT for named entity recognition and POS-tagging of noisy Spanish-English and Hindi-English data from Twitter
- Developed a preprocessing module for code-switched data using a combination of rule-based (phonemic transcription) and ML (seq2seq model using LSTMs) methods with 78.6% accuracy

Research Assistant Aug 2021 - Dec 2021
UH Data Analytics and Intelligent Systems Lab *Houston, TX*

- Built an ontology-based recommender system for an e-commerce website using GNNs with an accuracy of 72%

PUBLICATIONS

Normalization and Back-transliteration for Code-Switched Text, CALCS at NAACL 2021. ***Dwija Parikh*** *and Thamar Solorio*

TEACHING EXPERIENCE

Teaching Assistant 2020-2022
Introduction to Computer Science (COSC 1306, COSC 1336) *University of Houston*

- Duties included teaching weekly discussion sessions, holding office hours, developing course material, and grading

AWARDS AND HONORS

Grace Hopper Scholarship 2018
Scholarship to attend the Grace Hopper Conference

NASA JSC Hackathon 2022
Won first place for developing educational website for Mars exploration