Sanya Bathla Taneja

WORK EXPERIENCE | PROJECTS:

Research Assistant | School of Medicine, University of Pittsburgh October 2018-Present

- Leveraging Twitter to Monitor Nicotine and Tobacco-Related Cancer Communication with real-time monitoring of Twitter health messages with PI Dr. Brian Primack at the Center for Research on Media, Technology and Health. (https://github.com/CRMTH/RITHM)
- Responsible for RITHM software framework maintenance, documentation, and upkeep of the Github repository.
- Analyzed real-time Twitter data for public health research involving ecigarettes, vaping through natural language processing and machine learning techniques using Python and Bridges infrastructure at the Pittsburgh Supercomputing Center (PSC).

Software Development Engineer (SDE) Intern | Amazon India February-July 2018

- Developed backend API's for the Seller and Retail website using Java, Spring MVC, Coral, JavaScript and Handlebars.
- Involved in adding order cancellation details to the Seller dashboard to supplement the seller website.
- Implemented and documented an internal interface used for easier troubleshooting of seller issues.

Undergraduate Research Project | IGDTUW

November 2017-May 2018

Natural Language Processing with Python

- Conceptualized an algorithm for English slang meaning selection using fuzzy membership functions on parameters and slang definitions found on Urban Dictionary.
- Implemented scripts for text mining of English slang from popular social media sites (Twitter, YouTube, Reddit), processing of data using NLTK and Python, and execution of the algorithm.
- Created web portal with slang word definitions, along with the calculated 'Slang Factor' to evaluate the relevance of each definition.

Summer Research Internship | Indian Institute of Technology, Guwahati June-July 2017

Natural Language Processing with Python

- Developed 'End-to-End Fine-Grained Entity Recognition System' from Wikipedia and Freebase using Python.
- Involved in mining, processing and annotation of training and test sentence corpus from Wikipedia pages for entity recognition and classification into 118 categories.

Amazon Campus Mentorship Series | Amazon India November 2016-April 2017

 Worked on Locker Capacity Management System using Django and MySQL. Interface developed to manage and book lockers to deliver packages when placing an order. (Link: https://github.com/sanyabt/acms-1)

PUBLICATIONS:

Gupta, A., Taneja, S.B., Malik, G. et al. Prog Artif Intell (2018).

"SLANGZY: a fuzzy logic-based algorithm for English slang meaning selection". https://doi.org/10.1007/s13748-018-0159-3

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EDUCATION:

MS INTELLIGENT SYSTEMS | 2018-20 Intelligent Systems Program University of Pittsburgh

Cumulative GPA: 4.0

B. TECH COMPUTER SCIENCE ENGINEERING | 2014-18

Indira Gandhi Delhi Technical University for Women (IGDTUW)

SKILLS:

Python, C, C++, Git

JavaScript, HTML, CSS, Django, Java, MATLAB MySQL, DynamoDB

Proficient communication and oratory skills (TOEFL iBT Score: 120)

LIBRARIES AND MORE:

NLTK, Spacy, Scikit-learn, Jupyter Notebook, Tweepy, Numpy, Pandas, Slurm

INTERESTS:

Natural Language Processing, Data Mining, Artificial Intelligence, Clinical Informatics

SELECTED COURSEWORK:

Foundations of Artificial Intelligence Public and Clinical Health Informatics Applied Statistics Natural Language Processing Machine Learning

EXTRA-CURRICULAR:

Member of Pitt Python Linguistics group (PyLing) Talk on Twitter Data Mining at PyLing, November 2018

ACHIEVEMENTS:

Contribution to Python open source visualization and image processing library 'scikit-image' (https://github.com/sanyabt/scikit-image)

Kaggle submission for 'Bag of words meets bag of popcorns' challenge

Selected for Undergraduate Summer School in Indian Institute of Science, Bangalore, July 2016 Participation in workshops: Women Techmakers (Google India), PyData conference (Delhi)