

Sanya Bathla Taneja

Email: sbt12@pitt.edu

Pittsburgh, PA, USA

[Website](#) | [LinkedIn](#) | [GitHub](#)

INTEREST

Research in natural language processing, machine learning, data science and clinical informatics.

EDUCATION

University of Pittsburgh

Pittsburgh, PA

MS Intelligent Systems | *August 2018 – April 2020*

Major: Artificial Intelligence

Cumulative GPA: 4.0

Indira Gandhi Delhi Technical University for Women

Delhi, India

B.Tech. Computer Science and Engineering | *August 2014 – May 2018*

EXPERIENCE | PROJECTS

University of Pittsburgh, Department of Biomedical Informatics | Malawi, Africa

Summer Short-Term Trainee Program | *June – August 2019*

- Developed Bayesian model for diagnosis of childhood illness in low- and middle-income countries based on the Integrated Management of Childhood Illness (IMCI) protocol by WHO.
- Site visits to health centers, village health posts, district and central hospital to observe pediatric healthcare in Malawi, Africa.

University of Pittsburgh, School of Medicine

Research Assistant | *October 2018 – Present*

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

Amazon India

Software Development Engineer (SDE) Intern | *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.

Indira Gandhi Delhi Technical University for Women
Undergraduate Research Project | 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.
- Developed 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.

Indian Institute of Technology, Guwahati
Summer Research Internship | 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 India

Amazon Campus Mentorship Series | 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.

PUBLICATIONS

- Abhishek, A., **Taneja, S. B.**, Malik, G., Anand, A., & Awekar, A. (2019). Fine-grained Entity Recognition with Reduced False Negatives and Large Type Coverage. *arXiv preprint arXiv:1904.13178*.
- Gupta, A., **Taneja, S. B.**, Malik, G., Vij, S., Tayal, D. K., & Jain, A. (2019). SLANGZY: a fuzzy logic-based algorithm for English slang meaning selection. *Progress in Artificial Intelligence*, 8(1), 111-121.

SKILLS

Technical Skills: Python, C, C++, Git, JavaScript, HTML, CSS, MATLAB, MySQL, Django

Libraries: NLTK, Spacy, Pandas, Scikit-learn, Slurm, Jupyter Notebook

Languages: English (TOEFL iBT score: 120) and Hindi

SELECTED GRADUATE COURSEWORK

Foundations of Artificial Intelligence | Public and Clinical Health Informatics |

Machine Learning | Applied Statistics | Natural Language Processing

EXTRACURRICULAR

- Summer internship and course on Principles of Global Health Informatics in Malawi, Africa
- Member of Pitt Python Linguistics Group (PyLing)