Sachi Angle

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EDUCATION May 2021	**Cornell Tech at Cornell University** M.S. in Information Systems and Applied Information Sciences, Concentration in Connective Media *Courses: Natural Language Processing, Applied Machine Learning, Deep Learning, Tech Media and Democracy*	**New York, NY**
May 2018	**Manipal Institute of Technology** B.Tech. in Computer Science and Engineering *Courses: Natural Language Processing, Machine Learning, Artificial Intelligence* *Design and Analysis of Algorithms (Teaching Asst), Data Structures*	**Karnataka, India**

RESEARCH EXPERIENCE
Jan 18 – May 18

MT-NLP Lab at the International Institute of Information Technology   **Hyderabad, India**
Research Intern
- Built a command line tool for Part of Speech Tagging of Konkani (A data scarce language) with 77% accuracy using Semi-Supervised Machine Learning Techniques like Active Learning and Self Training
- Built an Automated Error Correction tool for POS tags of Hindi Data, in order to ensure that higher quality data is available for use. Achieved an accuracy of 94.02% with a Neural Network that employed the probabilistic predictions of Support Vector Machines, Long Short Term Memory Networks, and Conditional Random Fields to make its predictions

2016 – 2017

Manipal Institute of Technology   **Karnataka, India**
Research Intern
- Built a Morphological Analyzer for Kannada, an agglutinative language spoken in Karnataka, India, using Support Vector Machines for classification and achieved an accuracy rate of 85%
- The morphological components of the language provide valuable information regarding the properties of the word (e.g. Plurality, Gender) which can be used as data for other complex ML tasks

PROFESSIONAL EXPERIENCE
2018 - 2019

Microsoft   **Bangalore, India**
Software Developer at Microsoft IDC
- As an engineer on the Microsoft Substrate AI (The Cloud Platform for Office 365 Data) team, I worked on the pipeline that efficiently and compliantly extracts Office 365 data, in parallel, as structured schematized data available for consumption by partner ML teams.
- Filed for a patent in the scope of using NLP to improve user experience

PROJECTS

Detecting Political Bias Using Deep Learning
Using RNNs and LSTMs, this project assessed the political bias of speeches and news articles.

Soccer Summary Generator
Built a python command line tool which generates a textual summary of a video of a football match using RNNs and CNNs

SKILLS

Programming: Python, C#, C++
Libraries: Pandas, Scikit-learn, Numpy, Pytorch

ACHIEVEMENTS
- Cornell Tech Merit Scholarship Award
- Publication: "Automated Error Correction and Validation for POS Tagging of Hindi", ACL, PACLIC 2018 (https://www.aclweb.org/anthology/Y18-1002/)
- Publication: "Kannada morpheme segmentation using machine learning", IJET 2018 (https://www.sciencepubco.com/index.php/ijet/article/view/13395)
- First runner-up at Microsoft Bangalore for the annual hackathon

LEADERSHIP
- Member of Google's Women Techmakers
- Teach Code for Good, a volunteer program through which underprivileged children are taught how to code in python - Board Member and Mentor.