

SACHI ANGLE

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EDUCATION

Cornell University – Cornell Tech, *MSc in Info Science and Info Systems, concentration in CS* | GPA: 3.86

Cornell Tech Merit Scholarship Award

Teaching Assistantship: Machine Learning Engineering | Start Up Studio | Introduction to Entrepreneurship

Relevant Coursework: Natural Language Processing, Applied Machine Learning, Deep Learning, Algorithms, HCI and Design

Manipal Institute of Technology, *BTech in Computer Science and Engineering* | Top 10% | GPA: 9.05

Teaching Assistantship: Design and Analysis of Algorithms

Relevant Coursework: Natural Language Processing, Machine Learning, Artificial Intelligence, Data Structures

SKILLS

Technical: Python (Sklearn, Numpy, Pandas, PyTorch, Tensorflow), C++, C#, AWS, Java, HTML, CSS, SQL

Operating Systems: Windows, Linux

Research Methods: Affinity Diagram, Contextual Inquiry, Prototyping, Surveys

EXPERIENCE

Audible, an Amazon company, *Software Development Intern*, New York, NY Jun 2020 – Aug 2020

- Built an Alexa skill to quiz customers on book content they consume to increase user engagement using AWS lambda, typescript
- Built an NLP model using Named Entity Recognition(NER), Relation Extraction to auto generate questions for the audiobooks

Microsoft, *Software Engineer*, India Jun 2018 - Jul 2019

- Engineered pipelines that efficiently and compliantly extract Office 365 data on the Microsoft Substrate AI cloud platform
- Extracted data was made available to partner ML teams as structured schematized data available for consumption
- Filed for a patent for a feature that uses NLP to improve the management of online communications

RESEARCH

Cornell Tech, New York, NY

Deep learning research, detecting political bias using deep learning Spring 2020

Using BERT to represent the text, this project compared the use of RNNs and LSTMs in assessing the bias of political news articles.

The project implemented state-of-the-art methods used to detect sentence bias and tested its effectiveness for articles and speeches.

Tech, media, and democracy Spring 2020

Investigated the effect twitter bots have on sowing political discord using misinformation by analyzing scraped twitter data.

Consultant for Estee Lauder Companies Online, product design Fall 2019

To improve the online retail experience, developed a skin care app prototype to allow customers to track the effects of their products and make more informed decisions. Prototyping feature: periodical reductions in dark circles were detected using computer vision.

MT-NLP Lab at the IIIT-Hyderabad, Research Intern, Hyderabad, India Spring 2018

Part of speech tagging of a data scarce Indian language

Built a command line tool for POS tagging of Konkani (a data scarce language spoken in Goa, India) with 77% accuracy. Semi-supervised machine learning techniques like active learning and self-training were used to handle the limited amount of data.

Automated error correction tool for POS tags of Hindi data

Error Correction of Hindi POS tagged data was done using an ensemble model and achieved an accuracy of 94.02%. The ensemble model was built using a neural network that employed the probabilistic predictions of support vector machines (SVM), long short term memory (LSTM) networks, hidden markov models, and conditional random fields to detect errors in POS tagged Hindi data. [\[paper\]](#)

Manipal Institute of Information Technology, India Spring 2017

Morphological analysis of Kannada, an Indian agglutinative language

Built using SVM for classification with an accuracy rate of 85%. The morphological components provide valuable information regarding the properties of the word (eg. plurality, gender) which can be used as useful data for other complex ML tasks. [\[paper\]](#)

Soccer summary generator

Developed a python command line tool which generates a textual summary of a soccer match video. By using every 50th frame of the video, CNNs were used to detect objects in each frame and RNNs to generate sentences to form a coherent paragraph.

PUBLICATIONS & ACHIEVEMENTS

- Automated Error Correction & Validation for POS Tagging of Hindi, ACL 2018, [Paper](#) Presented at PACLIC 32, Hong Kong
- Kannada morpheme segmentation using machine learning, IJET 2018, [Paper](#) Presented at ICCET 2018, Chennai, India
- First runner-up at Microsoft Bangalore for the annual hackathon
- Patent Filed through Microsoft for a feature that uses NLP to improve the management of online communications
- Served on the Judging Panel for Smart India Hackathon 2020 hosted by Manipal Institute of Technology, India

LEADERSHIP & VOLUNTEER SERVICE

Board member of Cornell University's Graduate Students for Gender Inclusion Committee, Co-Founder of Women at Cornell Tech, Management Committee Member for IECSE-Manipal Institute of Technology's Computer Science Club, Board Member and Mentor of Teach Code for Good, volunteer program teaching underprivileged children how to code in python, Mentor at Google's Women Techmakers – Manipal Chapter, Writer and Sub-Editor of HR for MIT Post, official media body of Manipal Institute of Technology