Little Italy, Chicago, IL
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TEJAS SARMA

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EDUCATION

University of Illinois **Chicago, IL**
Master of Science, Computer Science, 3.9 ***May 2019***
- Selected Coursework: Data Mining and Text Mining, Artificial Intelligence (Algorithms, Methods, Applications, and Safety), Computer Algorithms, Human Computer Interaction, Database Systems, Advanced Machine Learning
- **Graduate Student Representative** for department of Computer Science

University of Mumbai **Mumbai, India**
Bachelor of Engineering, Electronics Engineering *May 2017*
- Sir Ratan Tata Technical **Scholarship** for Engineering Students

SKILLS

Languages: (Proficient) **Python**; (Familiar) C, C++, Java, HTML, CSS, JavaScript, MySQL, ROS
Frameworks and Tools: TensorFlow, **PyTorch, Keras**, NLTK, Android, Git, Flask, Bootstrap

EXPERIENCE

Graduate Student Researcher: Artificial Intelligence and Robotics Laboratory ***May 2018 – Present***
University of Illinois *Chicago, IL*
- Enabled visualization of Baxter Robot in Unity, for control using HTC Vive, using ROS#
- Implementing trajectory planning and grasp detection by using Joint Angle-Cartesian transformation

Graduate Teaching Assistant *Feb 2018 – Aug 2018*
University of Illinois *Chicago, IL*
- Courses: User Interface Design and Development, and Database Systems
- Assisted in management of coursework, conducting studio sessions, and creation and grading of assignments and tests

Undergraduate Student Researcher *May 2015 – Dec 2017*
Daemo, Stanford CrowdResearch, ***Stanford University***
- Co-developed the ***Boomerang*** *taskfeed mechanism*, and ***Open-Gov*** model, and ***Constitution*** model for Daemo

Course co-creator and Participant *Feb 2016 – Dec 2017*
Stanford Scholar, ***Stanford University***
- Headed the creation of the online course: *"Data Science and Machine Learning using Python".*

Android Developer Intern *Dec 2014 – Jan 2015*
Wegilant *Mumbai, India*
- Contributed to development of Android App for Wegilant (provider of Security systems for organizations)

PROJECTS

***Baxter™* Robot Motion Planning for Autonomous Execution of Self-Learned Tasks** *Aug 2018 – Present*
- Training Baxter Robot to learn Block Slot Sorter **game**, using approximate Q-Learning
- Achieved **grasp-detection** by using end-effector to Cartesian distance mapping, with Computer Vision

Automatic Image Captioning using InceptionV3 *October 2018*
- Achieved 53% test accuracy, by applying **InceptionV3** and **Deep LSTMs** for Microsoft **COCO Dataset (~20GB)**

Aspect Based Sentiment Classification *Mar 2018 – May 2018*
- Achieved **73% test accuracy,** by applying Linear SVMs for Aspect Sentiment Classification of **Amazon & Yelp reviews**

MonoRL: Reinforcement Learning Agent for Intelligent Monopoly *Feb 2018 – May 2018*
- Achieved **61% wins,** by implementing ε-Greedy Q(λ)-Learning agent for playing Monopoly, modelled as an MDP
- MonoRL was challenged by a Fixed Policy Agent, and a Random Agent, in a total of **100 test games**

CereBro: Intuitive scheduling for direct knowledge sharing *Aug 2017 – Dec 2017*
- Co-developed mobile platform, which helps bring together students for direct knowledge sharing within a university.
- Led the development of the **Android** Application and integration of Retrofit data onto the front-end

Triton: Predictive Assistance for Amateur Stock Traders *Jul 2016 – Mar 2017*
- Achieved **98% test accuracy,** by applying **Deep NNs** to predict weekly stock prices for 10 companies trading on **NYSE**

PUBLICATIONS AND CONFERENCES

- 6 co-authored Papers/Publications at UIST(2015, 2016), CSCW(2017), HCOMP(2017) and CCI(2017)
- Student Volunteer, **CSCW 2017**, Portland, OR *February 2017 - March 2017*