TEJAS SARMA

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EDUCATION

University of Illinois – Chicago, IL GPA: 3.83/ 4.0

Master of Science (M.S.), Computer Science   **Aug 2017 - May 2019**
- Relevant Coursework: Data Mining and Text Mining, AI: Safety, AI: Methods and Applications, Artificial Intelligence, Computer Algorithms, Human Computer Interaction, Database Systems
- **Graduate Student Representative** for Computer Science

University of Mumbai – Mumbai, India

Bachelor of Engineering in Electronics Engineering;   July 2013 - June 2017
- Relevant Coursework: Artificial Intelligence, Object oriented programming, Advanced Computer Networks
- Recipient of **Sir Ratan Tata Technical Scholarship for Engineering Students**
- Workshop on Cloud Computing at **Indian Institute of Technology, Delhi**

EXPERIENCE

University of Illinois at Chicago

Graduate Student Researcher: Artificial Intelligence and Robotics Laboratory   **May 2018 – Present**
- Inverse Reinforcement Learning based **Virtual Reality** control interface for **Baxter Robot**
- Robot Motion Planning for Autonomous Execution of Self-Learned Level - 1 games (Masters' Thesis)

Graduate Teaching Assistant   **Feb 2018 – Aug 2018**
- **Tasks**: Coursework management, Creating, managing, and Grading tests and assignments, Classroom studio sessions
- CS 422: User Interface Design and Development (Spring 2018), [CS 480: Database Systems (Summer 2018)

Stanford CrowdResearch, Stanford University (Daemo Crowdsourcing Platform)   **May 2015 – Dec 2017**
- Contributed to platform pilot studies, developing the "Boomerang taskfeed mechanism", and "Open-Gov model"
- Part of front end development, and team responsible for designing and developing constitution model for Daemo

Stanford Scholar program, Stanford University (Student participant and course co-creator)   **Feb 2016 – Dec 2017**
- Admin for creation of the online course: *"Data Science and Machine Learning using Python".*
- Co-created short talks on CS papers on Machine Learning, HCI, Crowdsourcing, Computer Vision, and Security.

Wegilant, Mumbai: Android Developer Intern   **Dec 2014 – Jan 2015**
- Android Developer Intern at Wegilant, a company that provided Security systems and infrastructure for organizations.

SKILLS AND PROJECTS

SOFTWARE SKILLS: Python (TensorFlow, PyTorch), C, C++, Java (Android), HTML, CSS, MySQL, Robot OS (ROS)

TECHNICAL SKILLS: Reinforcement Learning, Machine Learning, Data Science (Analysis and Mining), NLP

PROJECTS

Baxter^{TM} **Robot Motion Planning for Autonomous Execution of Self-Learned Tasks**   **Aug 2018 – Present**
- Master's Thesis Research Project to teach the *Baxter* robot to play level-1 games(e.g. pattern blocks)

Aspect Based Sentiment Classification   **Mar 2018 – May 2018**
- Aspect Sentiment Classification of product reviews with Linear Support Vector Machine Classifier (73% accuracy)

MonoRL: Reinforcement Learning Agent for Intelligent Monopoly   **Feb 2018 – May 2018**
- Reinforcement Learning agent for playing Monopoly, modelled as a Markov decision Process (MDP)
- Implemented 3 agents: An ε-Greedy Q(λ)-Learning Agent, A Fixed Policy Agent, and a Random Agent

CereBro: Intuitive scheduling for direct knowledge sharing   **Aug – Dec 2017**
- Android Application that helps bring together students for direct knowledge sharing within a university.
- Led the development of the Android Platform and integration of data sent by Retrofit into the front-end

Triton: Predictive Assistance for Amateur Stock Traders   **Jul 2016 – Mar 2017**
- Weekly predictions of opening stock prices for select companies listed under the NYSE (98% test accuracy)
- Performed Data Analysis, Cleaning, and Training of Neural Network used in the project.

Segregator Robot using Firebird V Robotic Research Platform   **Jan – April 2016**
- Built a segregator robot that categorizes and transports objects to assigned drop-off areas (similar to dock cranes)

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**