

# SRIJAN MISHRA

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**TECHNICAL** **Programming languages & OS:** Java, Python, C++, MATLAB, SQL, macOS, Linux  
**Machine Learning:** scikit-learn, OpenCV, pytorch, TensorFlow, Keras, Theano  
**Other skills:** AWS, MongoDB, Elasticsearch

## EDUCATION

2017-19 **UNIVERSITY OF MASSACHUSETTS AMHERST** **Amherst, MA**  
**Master of Science (MS) in Computer Science. CGPA- 4.0/4.0**  
**Selected Courses:** Advanced Machine Learning, Probabilistic Graphical Models, Natural Language Processing, Advanced Algorithms, Distributed Operating Systems

2010-14 **INDIAN INSTITUTE OF TECHNOLOGY DELHI (IIT DELHI)** **Delhi, INDIA**  
**B.Tech. in Mechanical Engineering. CGPA- 7.25/10**  
*Secured All India Rank 267 (out of 0.5M aspirants) in IIT Joint Entrance Exam, awarded MHRD scholarship 2014-15 for securing All India Rank of 284 out of 1 million candidates in AIEEE 2010; Extensive coursework in Math & CS*  
**Selected Courses:** Data Structures, Differential Equations, Linear Algebra, Probability

**Other Scholastic Achievements:** Cleared CFA Level-1 examination & FRM Part-1 examination

## PROFESSIONAL EXPERIENCE

Summer 2018 **Uber Engineering** **Palo Alto, US**  
**Summer Intern**

- Would be interning with the Products Platform research division at Uber in the summers

Jan-Jun, 2017 **Sprinklr, New York based social media for brands platform** **Gurugram, INDIA**  
**Product Engineer, NLP Team**

- Developed a spam filter for ad & porn categories; integrated with the main system & rolled out for 4 clients
- Developed a word disambiguation model; increased accuracy of entity based algorithms from 80% to 85%

Jan-Dec 2016 **Baxi- The Bike Taxi India's first on-demand two-wheeler taxi** **Gurugram, INDIA**  
**Software Engineer**

- Automated payouts using a server-less architecture on AWS enabling daily transfer of incentives
- Extended db model using MongoDB's GeoJSON functionalities to enable dynamic & location based pricing

## PROJECTS

Ongoing **Chan Zuckerberg Initiative- Joint entity recognition and linking for medical research papers**

- Used a bi-directional LSTM & CRF based model to beat state of the art entity recognition for medical papers
- Perfected linking using an LSTM run on the output of candidate reduction step post tfidf vectorizer training

Fall 2017 **Unsupervised domain adaptation using Generative Adversarial Networks** **University of Massachusetts**

- Built domain adaptation system for text and video time-series data using Convolutional Neural Networks, Long Short Term Memory networks and Adversarial Learning with cyclic reconstruction loss
- Built an end-to-end steering system on simulation of driving video and learnt automatic steering angle prediction on real-world driving videos using Adversarial Learning.

Fall 2017 **Authorship attribution for research papers** **University of Massachusetts**  
Experimented with various NLP based models to attribute authors to their research papers

2016 **Fine Grained Leaf classification** **IIT Mandi**

- Used pre-trained VGG-16 weights as fixed feature extractor on 185 leaf species from leafsnap dataset
- Experimented with model hyperparameters to determine best architecture for leaf-classification

2016 **Shadow Removal, Mobility Assistant for Visually Impaired** **IIT Delhi**  
Illuminant invariant image using a constancy approach and Canny Edge Detection for shadow detection

## POSITIONS OF RESPONSIBILITY, HOBBIES AND EXTRA-CURRICULARS

*Photography & design hobbyist; Won over 10+ photography competitions; Part of the street play team at IIT Delhi and won various inter-college competitions; Fitness enthusiast- lost 50 pounds in 3 months in 2016*  
*Held multiple POR's: Coordinator, Rendezvous festival, IIT Delhi; Cultural Secretary, Kumaon Hostel, IIT Delhi; Swimming Captain, Kumaon Hostel, IIT Delhi*