SRIJAN MISHRA

smishra@umass.edu - www.srijanmishra.com - (413) 695-2093

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**
Research 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