SRIJAN MISHRA

Graduate Computer Science student, University of Massachusetts, Amherst

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ACADEMIC DETAILS

Year	Program	Institute	Relevant Courses
May, 2019	MS in Computer Science	University of Massachusetts Amherst	Advanced Algorithms, Advanced Machine Learning, NLP
2014	B.Tech in Mechanical Engineering	Indian Institute of Technology, Delhi (IIT Delhi)	Differential Equations, Linear Algebra, Probability

SCHOLASTIC ACHIEVEMENTS

- Secured All India Rank **267**(99.95 percentile) out of **0.5 million** candidates appearing IIT-JEE (2010)
- Awarded MHRD scholarship for securing All India Rank **284** out of **1 million** candidates appearing in AIEEE (2010)
- Cleared **CFA** Level-1 examination conducted by CFA Institute, USA and **FRM** Part-1 conducted by GARP, USA

TECHNICAL SKILLS

- Languages: Java, Python, SQL & MATLAB
- Python libraries: OpenCV, Keras, Tensorflow, Numpy, Pandas, NLTK, scikit-learn
- Other skills: AWS, MongoDB & Elasticsearch

JOB EXPERIENCE

Product Engineer, NLP team   **Sprinklr**   Jan, 2017 – Jun, 2017

Technologies: Java, Python, Elasticsearch, MongoDB & nlp relevant libraries: tensorflow ,keras, scikit-learn.

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

Software Engineer   **Baxi-The Bike Taxi**   Jan, 2016 – Dec, 2016

Technologies: Java, Python, MongoDB, SQL & AWS

- Automated payouts using a **server-less** architecture on AWS enabling daily transfer of incentives to 400 drivers
- Extended database model using MongoDB's GeoJSON functionalities to enable dynamic & location based pricing
- Integrated backend with Facebook Messenger bot, widening customer base & increasing daily rides by 30%

Co-founder   **Sentient Complex Dynamics**   Jun, 2015 – Dec, 2015

- Prototyped an indoor positioning system based deals platform for a mall chain to increase customer engagement

Team Leader, Quantitative Office   **Bank of America**   Jul, 2014 – May, 2015

- Engineered risk analysis tools on Python by identifying driving parameters and studying underlying statistics
- Collaborated with Front Office- CVA & FVA Trading Desk in reporting Risk and PnL for 17,000 portfolios

PROJECTS

Shadow Removal, Mobility Assistant for Visually Impaired, IIT Delhi   Aug, 2016 – Dec, 2016

- Illuminant invariant image using a color constancy approach, used Canny Edge Detection for shadow detection
- Implemented a depth-based shadow removal approach using data from Intel RealSense depth camera

Fine-grained leaf classification, IIT Mandi   Aug, 2016 – Dec, 2016

- 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
- Differentiated species amongst leaf groups that appear similar to classifier using image processing techniques

Sentiment Analysis on IMDB movie reviews:

- Trained Random-Forest classifier on clusters of word vectors to achieve near perfect accuracies on IMDB reviews

INTERNSHIPS

Schlumberger Asia Services Limited, Nazira, Assam- Wireline Segment   Jun, 2013 – Jul, 2013

- Analyzed pre & post job processes to design process flow to minimize time & prevent crisscross flow
- Coordinated with ONGC to collect job work-orders & dispatch paperwork meeting client expectations

HOBBIES

Travelling and Running. Fitness enthusiast: lost 22kgs in 3 months in the first half of 2016