SRIJAN MISHRA

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ACADEMIC DETAILS

Year	Degree/Exam	Institute	GPA/Marks
2014	B.Tech in Mechanical Engineering	Indian Institute of Technology, Delhi	7.254

SCHOLASTIC ACHIEVEMENTS

- Secured **AIR 267(99.95 percentile)** out of **0.5 million** candidates appearing IIT-JEE (2010)
- Awarded **MHRD scholarship** for securing **AIR 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: Python, Java, C, MATLAB, SQL and VBA
- Python Libraries: OpenCV, Keras, Theano, Tensorflow and Numpy
- Other skills: Amazon Web Services, InfluxDB (Time series database), MongoDB

PROJECTS

- **Shadow Removal, Mobility Assistant for Visually Impaired, IIT Delhi** (Aug, 2016 – Present)**:**
- 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 – Present)**:**
- Used pre-trained VGG-16 weights as fixed feature extractor on 185 leaf species from leafsnap dataset
- Experimented with VGG layers and number of neurons to determine best architecture for leaf-classification
- Currently working on differentiating species amongst leaf groups that appear similar to the classifier

JOB EXPERIENCE

- **Software Engineer, Baxi-The Bike Taxi, Gurgaon** (Jan, 2016 – Present):
- Automated driver payouts using a serverless architecture on AWS enabling daily transfer of incentives to drivers
- Extended database model using MongoDB's GeoJSON functionalities to enable dynamic & location based pricing
- Implemented a time-series database on InfluxDB facilitating swiftness in analytics dashboards
- Conceptualized messenger bot, tweaked existing API choreography to fit the scenario
- **Co-founder, Percipient Complex Dynamics, Gurgaon** (Jun, 2015 – Dec-2015):
- Worked on an indoor positioning systems based hyper-local deals platform for a leading mall chain
- **Team Leader, Bank of America, Quantitative Office, Gurgaon** (July, 2014 – May-2015):
- Worked with the Credit and Funding Valuation team of Bank of America's Quantitative Office
- Engineered risk analysis tools on Python by identifying driving parameters and studying underlying statistics
- Closely worked with Front Office- CVA & FVA Trading Desk in reporting Risk and PnL for 17,000 portfolios

INTERNSHIPS

- **Schlumberger Asia Services Limited, Nazira, Assam- Wireline Segment** (June, 2013 - July, 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
- **Michigan Technological University, USA** (May, 2012 – July, 2012):
- Synthesized different length & diameter nanotubes by varying different parameters in combinations
- Examined bone crack healing capacity of nanotubes by conducting experiment on a living animal

EXTRA-CURRICULAR ACTIVITIES

- **Photography and film making:**
- Won prizes in cultural fests of 11 colleges; won various prizes at institute level as well
- **Sports:**
- 2nd Position, State Aquatic Championship ('08) & 1st Position, District Swimming Championship ('07)

HOBBIES

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