NAMAN SHUKLA

namans2@illinois.edu | 904 W Stoughton Street, Urbana, IL 61801 | (+1) 646-267-9093

Seeking Data Science - ML Internship in Summer 2018

EDUCATION

University of Illinois at Urbana - Champaign, IL **May 2019**
Master of Science in Industrial Engineering (**Advanced Analytics**) *GPA: 4.0 /4.0*
Courses: Machine Learning, Big Data & Clustering, Algorithms for Data Analytics
Computer Vision, Database Management, Soft Computing, Stochastic Processes, Optimization

Indian Institute of Technology, Hyderabad, India **May 2017**
Bachelor of Technology (B.Tech.) in Chemical Engineering *CGPA: 8.54/10*
Entrepreneurship Minor (**Excellence in Academics**)

ACADEMIC PROJECTS

Cycle Generative Adversarial Neural Network (Python, Tensorflow) **Jan 2018 – Present**

- Implemented cycle consistent image to image translation with GAN
- Used UIUC – NCSA Blue Waters K80 GPU dedicated cluster for training network
- Reported UC Berkley's AI Research Lab with collaborative repository – project guide : Prof. Svetlana

Atari Games Reinforcement Learning (Python, Tensorflow) **Jan 2018 – Present**

- Performed Q-Learning algorithm of policy gradient on Atari games.
- Extended implementation on android mocked environment with multi-agents interactions
- Participating at NIPS prestigious reinforcement learning competition 2018

Hand Written Image Recognition of USPS Dataset (Python, MATLAB) **Aug 2017 – Dec 2017**

- Extracted features through kernel PCA on 7K images from USPS dataset
- Implemented classification by training linear and kernel SVM with features produced by kernel PCA
  Achieved 97.3 % accuracy on image classification

Graphical User Interface Optimization Toolbox (MATLAB) **May 2015 – Jan 2016**

- Created a platform independent toolbox for model identification in biochemical reaction
- Used algorithms for parameter estimation : Generic Algorithm, particle swarm optimization, BAT algorithm
- Tested on lab data from IIT Bombay under the guidance of Professor Giri

EXPERIENCE

Collaborative Researcher – Ritsumeikan University, Shiga, Japan **Summers 2016**

- Used nature inspired optimization techniques to minimize protein structure's energy
  under the guidance of Professor Takeshi Kikuchi at Computational Biochemistry lab

University of Tokyo's Design and Innovation Program Member– Tokyo, Japan **Summers 2016**

- Selected among top 20 students worldwide to design innovation workshop for
  high school students of Miyazaki, Japan (JASSO Scholarship provided by the Japanese government)

Teaching Assistant – Indian Institute of Technology Hyderabad, India **Fall 2015**

- Assisted professor with grading exams and assignments in environmental chemistry

TECHNICAL SKILLS

Operating Systems	Linux, Unix, Windows, Android
Languages	Python, R, C/C++, Java, MATLAB, FORTRAN, SQL, HTML, PHP
Tools	MySQL, Postgres, Oracle SQL Developer, SAS, Docker
Frameworks	TensorFlow, Pytorch, Keras