NAMAN SHUKLA

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Seeking Data Science – ML Full Time

EDUCATION

University of Illinois at Urbana - Champaign, IL **May 2019**
Deep Air Graduate Research Scholar *GPA: 4.0 /4.0*
Master of Science in Industrial Engineering (**Advanced Analytics – CS Thesis**)
Courses: Machine Learning, Deep Learning, Big Data & Clustering, Algorithms for Data Analytics
Computer Vision, Database System, 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**)

EXPERIENCE

Data Science Research Intern – DeepAir, London **Summers 2018**

- Architected end to end pipeline for pricing module primarily based on reinforcement learning
- Implemented simulator environment for RL – agent to train on using Gated DeepAir Net (GDN) classifiers
- Developed module specific packages for processing and data engineering purposes

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

- Used evolutionary techniques like Genetic Algorithm and Swarm optimization for protein optimization 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)

ACADEMIC PROJECTS

Thesis – Reinforcement Learning on Dynamic Pricing (Python, Tensorflow) **Aug 2018 – Present**

- Performed Q-Learning algorithm of policy gradient on ancillary pricing modules in airlines
- Supported by DeepAir in collaboration with deep learning team at Imperial College, London

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

- 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

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

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, Git, SAS, Docker
Frameworks	TensorFlow, Pytorch, Keras