

NAMAN SHUKLA

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EDUCATION

University of Illinois at Urbana - Champaign, IL

May 2019

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)

PUBLICATIONS

Dynamic Pricing for Airline Ancillaries with Customer Context

May 2019

Naman Shukla, Arinbjörn Kolbeinsson, Ken Otwell, Lavanya Marla, Kartik Yellepeddi

- 25th ACM SIGKDD Conference on ACM Knowledge Discovery and Data Mining

ACADEMIC PROJECTS

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