Sheikh Shams Azam

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EDUCATION

Purdue University
West Lafayette, IN
M.S. in Electrical and Computer Engineering (Specialization in AI);
August 2019 – Present

National Institute of Technology Karnataka (NITK)
Surathkal, India
B.Tech in Electrical and Electronics Engineering;
July 2011 – May 2015

PUBLICATIONS

CASCADENET: An LSTM-Based Deep Learning Model for Automated ICD-10 Coding
FICC-2019; ICSWNLP-2018
- **Abstract**: Hierarchical NN architecture for classification of medical text among massively categorical ICD-10 codes

Q-Map: Clinical Concept Mining from Clinical Documents
ICSWNLP-2018; BAICONF-IIMB-2018
- **Abstract**: A medical concept mining system running UMLS Metathesaurus concept search on clinical free text.

MACHINE LEARNING EXPERIENCE

Privacy preserving generative adversarial learning models
Graduate Research Assistant, Purdue University, West Lafayette, IN
Fall 2019
- **Abstract**: GAN architecture for private representations while maintaining predictivity of datasets.

Link Prediction in Social Learning Networks
Grad Project, Purdue University, West Lafayette, IN
Fall 2019
- **Abstract**: Deep learning based prediction of unformed links in social learning networks for recommendations.

Document Analysis and Optical Character Recognition
Research Scientist, Foundation AI, Los Angeles, CA
September 2018 - August 2019
- **Abstract**: Development of pipelining methods like scene text detection, conditional GANs, CNNs for recognition

Smart Offers Recommendation
Bangalore, India
Machine Learning Intern, Simple Wealth, Bangalore, India
December 2015
- **Abstract**: Classification for offer recommendations based on popularity, user interests and geolocation.

FULL-STACK DEVELOPMENT AND DEVOPS EXPERIENCE

Secure Containerization
Research Scientist, Los Angeles, CA
September 2018 - August 2019
- **Abstract**: Standardization of containerization and distribution of services using micro-service architecture with API interfaces and secure communications using dockerized dynamic SSL layer

Optimizing Index Searches and Secure URL Discoveries
Data Scientist, Senior Software Engineer, Software Engineer, Practo, Bangalore, India
June 2015 - August 2018
- Scalable system for faster search and intelligent suggestions reliant on data driven adaptive ranking.
- Web server level Url Discovery and Redirection System for preventing web traffic overload on application.

COMPETITIONS AND PROJECTS

- **Machine Learning Medium**: Author of Machine Learning Medium (https://machinelearningmedium.com), an educational website, deployed and maintained on github pages using Jekyll and hosted on CloudFlare
- **Kaggle: Data Science Bowl 2017**: Among top 13% in Kaggle Data Science Bowl, 2017. Developed a machine learning classifier based on ResNet using 3D convolution for classification of malignancy of lung nodules from 3D CT Scans
- **HackerEarth, IndiaHacks 2017**: Secured rank 18 among several thousand participants at IndiaHacks Challenge, 2017 organized by HackerEarth for solving real world classification problems of HERE maps and Hotstar

*References available on request.