

Saleem Ahmed

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EDUCATION

State University of New York

Master of Science in Computer Science; GPA: 3.65

NIT

Bachelor of Engineering in Information Technology; GPA:8.85/10.0

Buffalo, NY

Aug. 2017 – Dec. 2018

Bilaspur, India

Aug. 2011 – July. 2015

RESEARCH EXPERIENCE

- **Ericsson Research** Santa Clara, CA
Computer Vision Research Intern *June 2018 – Present*
 - **Image Detection and Segmentation Pipelines:** Designed new deep learning model architecture based on Yolo + MaskRCNN using pytorch and tf
 - **Pan-optic Segmentation:** Research work for improving throughput of instance and semantic segmentation as a single task
 - **Multi-Video Input:** Utilizing proprietary dataset for methods and types of data that can be distilled from uncalibrated input videos.
- **UB Computer Science & Engineering Department** Buffalo, NY
Supervised Research under Dr. Mingchen Gao *August 2018 – Present*
 - **Image Segmentation in Biomedical Imaging :** Research work for improving real-time semi-supervised segmentation in bio-medical images
 - **Domain Adaptation :** Research work on domain adapting 3d rendered segment maps for real segment maps
- **UB Experiential Learning Department** Buffalo, NY
Graduate Research Assistant under Dr. Andrew Olewnik *Nov 2017 – May 2018*
 - **Design Data Repository: Research Work :** Automation of various ontology's in a production system, development alongside CUBRC

PROJECTS

- **Human Behaviour Prediction ::** Probabilistic Graphical Methods vs ML vs Siamese LSTM
- **Seq-Gan ::** RNN as sequence generators and stochastic policy gradients as discriminator
- **Seq2Seq ::** Sequence to Sequence RNN generators as a conversational chat bot
- **Variational RNN:** Latent Space based RNNs - Shakespeare passage generation
- **Celebrity Face Detection:** Deep Learning to recognize celebrity faces using CNN in Tensor Flow
- **Homography : Image Panorama:** Image Stitching after homography & fundamental matrix estimation
- **Learning to Rank (LeToR):** Python based prediction system using linear regression
- **Laplacian Blob Detector:** Matlab based Computer Vision and Image Processing Scale-space blob detection
- **Spatial Pyramid Matching for Scene Classification:** Matlab based representation on bags of visual words.
- **Vulgar Abuse filter as Browser Extension:** Deep Learning based social feed analyzer to block abuse

WORK EXPERIENCE

- **Faasos Food Services** Mumbai, India
Software Engineer *Dec 2015 – May 2017*
 - **Large scale distributed Web Software Development:** Developed & maintained all REST based Web Services. Micro-services written in NodeJs, Python & Ruby on Rails. Scaled MVPs to production level software consuming 300K requests per second. Optimized, re-factored & reduced errors by 25% of existing code base.
- **Socomo Technologies-Jugnoo** Chandigarh, India
Full Stack Developer *June 2014 – Nov 2015*
 - **Micro-Service API's:** Development and deployment of front-end and back-end codebase for a ride sharing company

PROGRAMMING SKILLS

- **ML/AI:** TensorFlow, Sklearn, Pandas, Numpy, Keras, Scipy, Matplotlib
- **Software:** C/C++, JAVA, Python, NodeJS, Django, Express, Angular, React, Ruby, MongoDB, Mysql, Redis, DynamoDB, Git