QI GAO

Data Scientist

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INTERNSHIP

Android Developer

IQIYI.com Inc

Summer, 2017 | Beijing, China

- Researched on daemon process and wrote a demonstration to prevent the program from being shut down.
- Wrote a demonstration to marquee effect.
- Tested functions of video platform basing on different TV boxes.

EDUCATION

Master of Computer Science

University of Texas at Dallas

January 2019 – December 2019

- GPA 3.22/4.00

Bachelor of Computer Science

University of Texas at Dallas

January 2016 – December 2018

- GPA 3.48/4.00

ACHIEVEMENTS

- Placed in top 14% in RSNA Pneumonia Detection Kaggle challenge
- Placed in top 3% in Digit Recognition Challenge using One-Shot Learning
- Winner at Samsung SMS Classification Hackathon
- Placed in top 5% in ”Predict the Happiness” Hackerearth Challenge
- Secured AIR 1232 in GATE 2017

PROGRAMMING SKILLS

- Languages: Java, C++, Python
- Web Development: HTML/CSS/Javascript, Java Web
- Data Science: R, SQL
- App Development: Android Development, Windows Form

EDUCATION / COURSES

Deep Learning Specialization

Coursera

June 2017 – Aug 2017

Bachelor of Technology

Vivekanand Education Society Institute of Technology

June 2012 – May 2016

PROJECTS

Masked Face Detection for ATM

- Developed a head classifier to detect masked faces in ATM to potentially prevent the event of robbery.
- Different camera angle, position, image quality, illumination and type of occlusion were the major challenges. Improved the existing accuracy by 20%.

Person Tracking

- Developed, modified and implemented robust object tracker by combining motion and appearance information to learn deep association metrics.

One Shot Learning

- One shot learning is the promising approach to learn good feature when little data is available.
- Achieved 92% accuracy on omniglot dataset using Siamese network with Bayesian optimization.

Automatic Defect Inspection of solar farm using drones

- Regular inspection of solar farm due to its wide size is strenuous.
- Developed a model to classify and localize defect on thermal images captured by drones.

Anomaly detection using Auto-Encoders

- Developed a model to learn regular patterns from sensor data and detect unusual pattern.

Early Warning Fault Detection and Identification

- Developed an LSTM based model to forecast and detect outlier from sensor data.
- Further, classified the given signal into one of the type of outlier.

Sentiment Analysis

- Used bag-of-words, pre-trained Embedding and simple as well as bi-directional LSTM techniques for Sentiment Analysis.

OTHER EXPERIENCE