Piyush Malhotra

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May 2017 - March 2018

EDUCATION

Amity School of Engineering and Technology

Amity University, Noida, India Bachelor of Technology in Computer Science and Engineering; GPA: 7.14/10.0 July. 2014 - May. 2018

EXPERIENCE

Untrodden Labs New Delhi, India

Machine Learning Intern June 2018 - October 2018

• ThingsGoSocial: Train, Tested and Deployed Non-Intrusive Load Monitoring (NILM) Deep Learning models. Current NILM system scores a - F1 score for different appliances varied between 0.1 and 0.9 over test

• Research RL for HVAC: Apply Deep Reinforcement Learning Heating, ventilation, and air conditioning (HVAC) systems for consumption reduction.

StarLight Academy New Delhi, India

Computer Programming Instructor • Courses: Taught Programming courses - C/C++, Java and Python to high school students

ISSA, Defence Research and Development Organisation (D.R.D.O.) New Delhi, India

Summer Intern Summer 2016

o Mission Simulator: Made a Mission Simulator Editor to generate a mission simulation file that can be used to check the efficiency of the planned mission.

Projects

- Predictive Programmer: A blog dedicated to Machine Learning and Data Science. Monthly Views: 1,500, Blogs Written: 13+.
- PSO For Neural Networks: This was one of the many experiments I conducted for my final year thesis. Experiment tried to replace Gradient Descent with Particle Swarm Optimization (a meta-heuristics approach). Was able to classify two multivariate normal distribution with a loss of 0.51 but failed on MNIST (hello world for deep learning)
- Image Captioning: Image captioning using TensorFlow and TensorFlow-hub with test loss at about 0.71
- Neural Style Transfer: Basic Neural Style Transfer using VGG-19 pre-trained model
- For more projects visit my github account : @piyush2896

Programming Skills

- Languages: Python, C/C++, Java, SQL Basics: Javascript, HTML/CSS
- Libraries: TensorFlow, Keras, PyTorch, Scikit-Learn, MatplotLib, Pandas, NumPy, OpenCV
- Technologies: AWS, Google Cloud, Android Studio

Accomplishments

- Research Paper Presentation: Presented a paper Parameter Estimation of Software Reliability Growth Models Using Krill Herd Algorithm in Confluence 2017 - annual IEEE international conference held in Amity University, Uttar Pradesh, India.
- Research Poster Presentation: As part of final year thesis conducted a project based approach towards Meta-heuristics in Deep Learning and devised a Neural Architecture Search using Meta-heuristics. Selected in top 10 posters at Department Level.

CERTIFICATIONS

- Deep Learning Specialization. Certificate earned on April 04, 2018
- Machine Learning Basic Nanodegree Udacity. Certificate Earned on November 13, 2017.
- Machine Learning by Stanford University on Coursera. Certificate earned on January 18, 2017.