Sudeep Raja Putta

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Education

Indian Institute of Technology Kharagpur

Bachelor of Technology (Hons.)

CGPA: 8.88/10.00

Kharagpur, India 2012 - 2016

Programming Skills and Familiar tools

Languages C, C++, Python

Tools Keras, Caffe, Theano, CUDA

Projects and Internships

Human Activity Recognition in Temporally Untrimmed Videos Bachelor Thesis Project

Guide: Dr.Partha Pratim Das

May 2015-April 2016

- We use two neural networks trained separately to perform different sub tasks.
- Activity Detection Network ADN is a CNN + LSTM trained on untrimmed videos to detect activity segments.
- Activity Recognition Network(ARN) is a 2-sream Convolutional Neural Network + LSTM trained on trimmed videos to recognize activities.
- Given a video, ADN predicts the temporal extents of activities and ARN predicts the activity occurring in the extent.

Text Recognition using Bidirectional Long Short Term Memory Neural Networks Research Intern at CVIT lab at IIIT, Hyderabad May 2014-July 2014 Guide: Dr.C.V. Jawahar

- Using BLSTM neural networks we were able to recognize characters from Indian text documents.
- Methods of implementing FNNs, RNNs and LSTM networks on GPUs using NVIDIA CUDA were explored.

Analysis of Clickbait articles Social Computing Project

July 2015-November 2015

- Using features extracted from clickbait article titles, we trained a classifier to recognize clickbait headlines.
- Using Markov models ,we generated clickbait headlines. LSTM neural networks were also trained to generate clickbait articles.
- Using Supervised LDA topic modelling, we were able to predict the popularity of new articles.

Ambulance Response Time Optimization Xerox Research Centre India Open 2015

- Using the Facility Location problem as a model , we were able to assign Ambulance locations in a city based on the accident count in each area such that the response time of an ambulance in case of an emergency is minimized.
- Our solution is tolerant to traffic delays during different times of the day and is applicable to related problems in transportation and facility location.

Non Photo-realistic Rendering of Images as paintings Visual Communication Project and Microsoft Code.Fun.Do

May 2014 and October 2015

- Developed algorithms to render photographs as impressionist era paintings for styles such as Pointillism, Cubism, Divisionism and Fauvism.
- Using the Neural Algorithm of Artistic Style paper, we were able to achieve better results. We were runners up in Microsoft Code.Fun.Do conducted at IIT Kharagpur for our phone app.

Scholastic Achievements

Xerox Research Centre India Open 2015 My team of 3 won the Xerox Research Innovation Challenge at XRCI open 2015.	2015
Microsoft Code.Fun.Do My team of 3 was campus runners up in Microsoft Code.Fun.Do	2015
Aditya Birla Scholarship 2012 Figured among top 24 engineering students shortlisted from all over India.	2012
IIT Joint Entrance Examination (IITJEE) All India Rank-281 in General category among half a million candidates.	2012
All India Engineering/Architecture Entrance Examination (AIEEE) All India Rank-63 in General category among one million candidates.	2012