

Sudeep Raja Putta

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<http://sudeeppraja.github.io/>

Education

Indian Institute of Technology Kharagpur

Bachelor of Technology (Hons.)

CGPA : 8.88/10.00

Kharagpur, India

2012 - 2016

Certification

Udacity

Machine Learning Engineer Nanodegree

Programming Skills and Familiar tools

Languages Python, C++, C

Tools Keras, Tensorflow, Scikit-learn, Numpy, OpenCV

Projects and Internships

Human Activity Recognition in Temporally Untrimmed Videos

Bachelor Thesis Project

May 2015-April 2016

Guide: Dr.Partha Pratim Das

- Used a neural network consisting of CNNs and LSTMs for activity recognition and detection in videos.

Human Activity Recognition Using Smartphones

Udacity Nanodegree Capstone Project

June 2016

- Visualized the dataset using PCA and used deep neural networks to fit the data.

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.

Analysis of Clickbait articles

Social Computing Project

July 2015-November 2015

- Generated clickbait articles using LSTM neural networks and Markov models. Also predicted their popularity using Supervised LDA

Ambulance Response Time Optimization

Xerox Research Centre India Open 2015

- Modeled the problem as a P-Median Facility location problem to minimize the response time of an ambulances in a city.

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. Also used the Neural Algorithm of Artistic Style technique to get better results.

Tracking Idea Evolution in Discussion Forums
Research Intern at IBM Research Labs, India
Cognitive Solutions Research Group

May 2015-July 2015

- Algorithms for identifying the Ideas proposed in a forum and tracking the evolution of ideas in the form of a tree were developed.

Talks

Deep Learning for activity recognition Deep Learning Reading Group - IIT Kharagpur
Discussed various deep architectures for Video Processing

Training Deep Networks Deep Learning Reading Group - IIT Kharagpur
Discussed practical implementations using Keras+H5py

Scholastic Achievements

Xerox Research Centre India Open 2015 2015

My team of 3 won the Xerox Research Innovation Challenge at XRCI open 2015.

Microsoft Code.Fun.Do 2015

My team of 3 was campus runners up in Microsoft Code.Fun.Do

Aditya Birla Scholarship 2012 2012

Figured among top **24** engineering students shortlisted from all over India.

IIT Joint Entrance Examination (IITJEE) 2012

All India Rank-**281** in **General** category among half a million candidates.

All India Engineering/Architecture Entrance Examination (AIEEE) 2012

All India Rank-**63** in **General** category among one million candidates.

Hobbies

Blogging about mathematics, machine learning and algorithms
<http://sudeepreja.github.io/blog/>