Agniv Sharma

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EXPERIENCE

Indraprastha Institute of Information Technology, Delhi — *Summer Research Intern*

JUNE 2018

We worked to build a relevance predictor for the content based video relevance challenge organised by ACM multimedia.

IISc, Bangalore — *Summer Research Intern*

JUNE 2017 - AUGUST 2017

Worked on the implementation of one-shot recognition using Bayesian Program Learning Framework.

Indraprastha Institute of Information Technology, Delhi — *Winter Research Intern*

DECEMBER 2016 - JANUARY 2017

Constructed an automated system for action classification by the use of stacked Dirichlet process mixture models. Youtube Link: https://youtu.be/L34hUeuSuxs?list=UUZdXs8MoXabfmezMusGopVg

Indraprastha Institute of Information Technology, Delhi — *Summer Research Intern*

JUNE 2016 - JULY 2016

I worked to build a system for classification of documents based on features visible under UV light. I worked with image registration followed by image verification algorithms.

EDUCATION

Delhi Technological University — *Electronics And Communication Engineering*

2014 - Ongoing

Aggregate Percentage(till 7th Sem) : 80.54%

SKILLS

Programming Languages: C++, Python, C.

Libraries: OpenCV, Tensorflow, Keras, Pandas.

Development: HTML, CSS.

ACADEMIC ACHIEVEMENTS

1) Ranked 4327, among the top 0.3% nationwide, out of more than 1.3 million candidates in JEE Mains.

2) Scored 95.4% in class 12th, I was in top 0.1 percentile.

EXTRA-CURRICULAR ACTIVITIES AND ACHIEVEMENTS

Awarded Prabhakar(Graduate Degree) in **Tabla Solo** by Prayag Sangeet Samiti, Allahabad.

Member of Power LIfiting Team of our college

Was among the top 20 runners, in Delhi Half Marathon(21 km)

The Asian School, Dehradun — *AISSCE(CLASS XII)*

2014

Percentage : 95.4%

The Asian School, Dehradun — *AISCE(CLASS X)*

2014

CGPA : 9.8

PROJECTS

Real-time person Re-identification System

Constructed a fully end-to-end real-time person re-identification system pipeline, by cascading YOLO and squeezenet architectures and used SVM for the final classification results.

Skeleton based human action recognition using motion history images and CNN

Currently working on system which uses motion history images taken from three different views for human action recognition. Models like VGG-16, Alex Net etc. are used for final classification

Human activity recognition using 2D projected human skeletons

The project involved action recognition(like brushing, cutting vegetables etc.) by using the skeletal points obtained with MS Kinect. By the use of time based feature vectors and logistic regression classifier **accuracy of 94%** was obtained.

Fall Detection In Videos

In the above mentioned project the foreground human silhouette was extracted and features based on this foreground were classified with SVM classifier for building a fall detection system. Maximum **accuracy of 82%** was achieved.

E-yantra Robotics Competition

E-yantra is an annual robotics competition organised by IIT-Bombay. In the competition I worked on a number recognition algorithm and on Embedded C for programming of Firebird-V, provided by the IIT-Bombay. Our team made to the top 20 teams in our category.

RELEVANT COURSES UNDERTAKEN

Deep Learning Specialization- 5-course specialization by deeplearning.ai

CS-229 - Machine Learning Classroom course by Prof. Andrew Ng

Computer Vision- University Elective

MIT 18.06 - Linear Algebra by Prof. Gilbert Strang

Pattern Recognition - University Elective

Probability and Stochastic Processes - University Subject