

SAURABH GOYAL

22 Years, Male, 06CS3014



ACADEMIC QUALIFICATIONS

Qualification	Year	Institute	CGPA / %
Dual Degree (B.Tech + M.Tech) Computer Science & Engineering	2006 to Present	Indian Institute of Technology, Kharagpur	8.21/10
Class – XII (CBSE)	2006	Modi Public School, Kota	83.4%
Class – X (CBSE)	2004	Lakshmi Pat Singhania School, Kankroli	89.0%

ACADEMIC ACHIEVEMENTS & SCHOLARSHIPS

- Selected for the Egide Scholarship given by the French Embassy to do a Summer Internship at INRIA, Sophia Antipolis, France for two consecutive years (2009 & 2010)
- Secured All India Rank 493 amongst about 300,000 students in IIT Joint Entrance Examination, 2006
- Got Selected for final round of National Science Olympiad in 2002 and 2003 and secured All India Rank 76 and 87 respectively

INTERNSHIPS

Computer Vision
May 2009 – July 2009
INRIA, France

Supervisor : Dr. Francois Bremond, INRIA, Sophia Antipolis, France

Pedestrian Detection for Video Surveillance : The project involved the development and implementation of an algorithm for detection of pedestrians in video frames. A model of a pedestrian was learned using different machine learning models and training images which was then used to detect pedestrians in other images. Opencv Computer Vision Library (C, C++) was used for development.

Computer Vision
May 2010 – July 2010
INRIA, France

Supervisor : Dr. Francois Bremond, INRIA, Sophia Antipolis, France

Pedestrian Detection for Video Surveillance : The project involved the detection of people in a video feed. This was a continuation of work which I did in Summer 2009. The objective now was to analyze how different parts of the algorithm affect the performance (speed and accuracy) of the detector, fine tune and integrate the developed into Scene Understanding Platform used by the team.

PROJECTS

Natural Language Processing
July 2010 - Present
IIT Kharagpur

Supervisor : Prof. Pabitra Mitra and Prof. Sudeshna Sarkar, IIT Kharagpur.

Cross lingual information search : The project involves crawling and indexing web pages with content in multiple languages (taking English and Hindi as model languages). The objective is to prepare a multi language index, which would consider all language words present in a document to rank it. Various probabilistic models and python language were used.

**Image Processing/
Machine Learning**
July 2009 – May 2010
IIT Kharagpur

Supervisor : Prof. Gaurav Harit, IIT Kharagpur.

Document Image Layout Analysis : The project involved segmenting a document image into key regions and provide a syntactic and semantic label to each region based on model learnt from hand labelled images. Various machine learning models like conditional random fields, support vector machines were used. Opencv computer vision library (C, C++) and Matlab were used for development.

EXTRA ACADEMIC ACTIVITIES

- Positions of responsibility:
 - Captain of my Hostel's **Advertisement Design** team.
 - Captain of my Hostel's **Open Soft (an inter hostel software design competition)** team.
 - Captain of my Hostel's Lawn Tennis Team.
- Part of the hostel's **cricket** team.
- Part of School **English Debate** Team and represented school twice in National Level inter-school debate competitions.
- Team Leader of a group of 5 students in school which participated in an **International Convention on Students'**

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