

# Parth Gargava

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## EDUCATIONAL BACKGROUND

Year	Degree/Exam	Institute	GPA/Marks (%)
2015	B.Tech Computer Science & Engg	Jaypee Institute of Information Technology, Noida, India	7.5 (8.9 CGPA, final year)
2011	AISSCE	Amity International School, (CBSE), Delhi, India	87%
2009	AISSE	Amity International School, (CBSE), Delhi, India	95.2%

## WORK EXPERIENCE / INTERNSHIPS

- **Centre for Development of Advanced Computing, Ministry of Communications & Information Technology, Pune** (Present)  
Technical Engineer, Work group – Graphic and Intelligence based Script Technology; currently working on **Computer Vision and text prediction for Online Hand-written System for native languages** (Hindi) using Recurrent Neural Nets
- **Centre for Development of Advanced Computing, Noida** (Summer 2014)  
Developed an asynchronous subject independent Brain Computer Interface to control a robot
- **Ali Colors** ([www.alicolors.com](http://www.alicolors.com)) (Summer 2013)  
Identified trends on the basis of views to put in discount deals for customers at an E-commerce apparel store using logistic regression

## ACADEMIC PROJECTS

- Project Title: **Controlling a Robot using non-invasive Brain Computer Interface and its machine learning (At CDAC)** (2014)
    - Designed and developed a real time system to control an Arduino robot using a non-invasive Brain computer interface system which is based on bandpower features and Support Vector Machine classifier to realize eye movement based device control for a prototype for those **suffering from ALS and Brain Stem stroke disease (neurological disorders)**
    - **Patent** filed (2015)
- Recipient of SKOCH ORDER OF MERIT Award 2015**
- **Special Projection Interfacing Device for Enhanced Routing- S.P.I.D.E.R.** (2013)
    - Developed a system to simplify directions to the destination on a small part of the screen of a car's wind shield by displaying navigational directions after processing them on MATLAB with the use of a mini inexpensive projector by porting on a CUDA compiler to increase safety of on-road drivers
  - **Co-relation between spectrum allocation and spectrum sensing for cognitive radio networks- a theoretical study** (2015)
    - Developed a relation between parameters of linear cooperative spectrum sensing and spectrum allocation in cognitive radio networks based on mathematical modelling
  - **Predicting volatility in stock market price through smcindiaonline.com** (2011)
    - Developed a tool for predicting volatility in stock market price of a firm using ridge and logistic regression

## PUBLICATIONS

- Parth Gargava, Karan Sindwani, Sumit Soman (2014). **Controlling an Arduino robot using brain computer interface. IEEE 3<sup>rd</sup> International Conference on reliability, infocom technologies and optimization (ICRITO'14).**  
**Received BEST PAPER AWARD in track 'Artificial Intelligence'**
- Dr. Charu, Parth Gargava, Sridhar Sharma, Ayush Arora, Akshay Jain (2014). **Special Projection Interfacing Device for Enhanced Routing. IEEE 3<sup>rd</sup> International Conference on Advances in Computing, Communications and Informatics (ICACCI'14)** as poster paper.
- Parth Gargava, Dr Krishna Asawa (2015). **Brain Computer Interface for Micro-controller Driven Robot Using Emotiv Sensors (ACCEPTED). Body Nets conference, Sydney, Australia.**

## ACADEMIC ACHIEVEMENTS

- Successfully completed online courses on:
  - **'Machine learning'** (scored **92.7% + Statement of Accomplishment**), Dr. Andrew Ng (Coursera), by Stanford University
  - **'Big data and web intelligence'**, Dr. Gautam Shroff (Coursera) by California Institute of Technology

- ‘**Learning from data**’, Dr. Yaser S. Abu-Mostafa (Coursera) by California Institute of Technology
- Amongst **Top 3 students out of 400** - Scored **A+ in all academic projects** (major and minor) for the last 4 consecutive semesters
- Scored **8.9 GPA in 7<sup>th</sup> and 8<sup>th</sup> semester** coming 2<sup>nd</sup> in a class of 50
- **Selected** as Teaching Assistant (TA) for the course Software Engineering laboratory and for placement training classes
- **All India Highest in German Language (99%)** – Central Board of Secondary Education merit certificate

### POSITIONS OF RESPONSIBILITY

- **Vice President** (JIIT Youth Club) – Spearheaded the Student Council (2013-14)
  - **Led the Core Student Council** composed of **12** Departmental Heads.
  - **Conceptualized, Planned and Executed** Annual Techno-Cultural Festival of JIIT, ‘*Converge*’.
- **Organized/ Moderated/ Chaired 39 Model United Nations Conferences** (2010-present)
  - **Secretary General** of Secretariat/Organizing Team for MUN Conferences organized by JIIT (2013, 2014) and Sharda University (2014).
  - **Presided** over 35 simulations of MUN sessions like **Human Rights Council, Security Council, Committee on Peaceful Uses of Outer Space** and **General Assembly** in colleges (IIT Delhi, IIT Mumbai, and Delhi University).
  - **Executive Board (Chairperson/Director)** – Formulated Background Guides, Acting Jury Member.

### EXTRA CURRICULAR ACTIVITIES

- **Participation in Model United Nations Conferences (over 20 conferences as Delegate)** (2010-present)
  - Representative **Delegate** of member nations – Russia, Japan, Pakistan, Iran, France and others.
  - Committees attended – UNGA, UNHRC, ECOSOC and UNSC.
  - Exhibited exceptional drafting skills (Resolutions, Press releases), diplomatic prowess and international policy advocacy.
  - Awards and Recognition – **Best Delegate (1<sup>st</sup> Position), High Commendation (2<sup>nd</sup> Position)**
  - **2nd Runner up** at the United Nations Conference of Parties (COP’11), hosted by UNEP (17 students selected nationwide).
- **Head Coordinator/Volunteer** at Airtel Formula One **Indian Grand Prix** (2012)
- Attained the Bronze standard of the **International Award for Young People (IAYP) under the Duke of Edinburgh**
- Received the **best All-rounder award** in school for 8 years

### SOCIAL ACTIVITIES / SERVICES

- Active member of **Child Rights and You / CRY** (NGO) where I teach Numerical Ability and Public Speaking (2015)
- Undertook teaching basics of computers to underprivileged children in a **local NGO (Sai Sena, Mayur Vihar, Delhi)** (2013)
- **Blood Donation Camps** – Participated as both, **Donor and Activist**.

### OTHER INTERESTS

Reading on World politics and foreign policy, playing keyboard, Liverpool F.C. supporter