



## EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2017	B.TECH	IIT Kharagpur	9.18 / 10
2013	Senior School Certificate Examination	C.B.S.E	93%
2011	Secondary School Certificate Examination	C.B.S.E	10 / 10

## INTERSHIPS

**Summer Intern, Goldman Sachs**

- Developed horizontal support system among teams leveraging a centralized system to handle operational events.
- Gamification of entire architecture to encourage incentives.

**National Digital Library, I.I.T Kharagpur**

- Developed a REST API for NDL Project interfacing Dspace and Apache Solar with frontend.
- Crawled metadata for educational contents from educational portals.

## PROJECTS

**Automatic Speech Recognition, Deep Learning**

- End to End lexicon free Automatic Speech recognition system training.
- Compression using ensembles and soft targets for knowledge transfer.

**Learning at Inhibitory Synapses [BTP]**

- Analytical derivation of learning rule and explanation for Spike Timing Dependent Plasticity of Inhibitory Synapses.

**Articles headlines generation using LSTM, SNLP**

- Articles extractive summarization using LDA.
- Headlines generation using seq to seq model having BDRNN ( LSTM ) with attention modules.

**Software Team, Swarm Robotics**

- Implemented basic path planning and obstacle avoidance using algorithms like A-star for distributed systems.

**Semantic Segmentation of Images, Machine Learning**

- Semantic Segmentation of images using various approaches like bayes, SVM.
- Hands on experience with state of the art solutions and implement new architectures.

**Analysis of comments on news articles, Information Retrieval**

- Analysed time decay, correlation between real events and comments on articles crawled from 10 different sites.

## AWARDS AND ACHIEVEMENTS

**Kishore Vaigyanik Protsahan Yojana**

- Selected for K.V.P.Y fellowship Award - 2012.

**ACM ICPC 2015**

- Qualified for Amritapuri regionals, ACM ICPC 2015.

## CERTIFICATIONS

**VLSI Summer Course**

- Attended lectures on analog and digital circuit design, FPGA prototyping and basic TCAD simulations along with special guest lectures from academia.
- Lab sessions on simulation tools like Cadence and Synopsys.

## SKILLS AND EXPERTISE

Programming Languages : C, C++, JAVA, Python  
Web Development : HTML, CSS, JavaScript, PHP  
Software Packages : Git, JEE, Dspace, Apache Solar, Eclipse, Cadence, Xilinx, Synopsys

## COURSEWORK INFORMATION

- Artificial Intelligence, Information retrieval, Speech and Natural Language processing, Object Oriented Programming and Systems
- Computational Neuroscience, Probability and Stochastic processes, Image processing

## POSITIONS OF RESPONSIBILITY

**Captain OpenSoft, HJB hall**

- Team developed Grapher as a solution to obtain tables from plots (2D) in a Pdf.

## EXTRA CURRICULAR ACTIVITIES

- Participated and won medal in OpenIIT product Design and Inter-hall OpenSoft at I.I.T. Kharagpur