Abhinav Agarwal

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EDUCATION

2014–present	**B.Tech in Electrical Engineering** , *IIT Kharagpur*. CGPA - 9.58 (on scale of 10)
May 2014	**12th Grade**, *CBSE*, New Delhi. Aggregate - 95.4%
May 2012	**10th Grade**, *CBSE*, New Delhi. GPA - 9.4 (on scale of 10)

COURSEWORK

Undergraduate.
Algorithms, Artificial Intelligence, Machine Learning, Data Analytics, Information Retrieval, Cryptography, Computer Architecture and Operating Systems, Intelligent System

Online.
Database Management Systems

EXPERIENCE

Kharagpur Robosoccer Students' Group

Feb 2015 –present	**Artificial Intelligence Team Member**. **Robocup3d Simulation League** KRSSG is first Indian team to qualify for Robocup3d simulation which was held at Germany(2016). KRSSG made an outstanding debut by qualifying all rounds and being undefeated by 3 teams in any match. Implemented team positioning, multi-agent pass, CMA-ES based walk optimization. **Code-O-Soccer** is a coding competition conducted by KRSSG. Implemented a windows batch script to automate the evaluation process.

Goldman Sachs

May 2017 –July 2017	**Internship**, Technology Division. Implemented end-to-end system for throttling the database system. **Pre Placement Offer**, Technology Division. Offered pre-placement offer in technology division at Bengaluru office.

National Digital Library Project

May 2016 –July 2016	**Internship**. NDL is a flagship initiative of MHRD. I implemented spell check using aspell linux utility.

Image Processing Winter Workshop

Dec 2014,
Kharagpur

Participant.
Attended IEEE certified, Computer Vision workshop.

Open Source Contributions

Dec 2015-
March 2016

Contributor, SymEngine .
SymEngine is a fast C++ symbolic manipulation library. I successfully merged 17 pull requests pushing total 56 commits and co-authored of the talk *SymEngine: A Fast Symbolic Manipulation Library* in Scipy (USA 2016).

SKILLS

Language	English, Hindi
Programming Languages	C, C++, Python, Latex, Java
Concepts	OOPS, STL, Multithreading, Data Structures & Algorithms, Regex
Platforms	Windows, Linux
Tools	Git, Bash, Batch scripting, Matlab, Apache Solr, Protobuf, OpenCV, Theano

ACHIEVEMENTS

- Department rank 1
- Qualified for **ACM-ICPC** (2015) Amritapuri regionals.
- Secured rank in top 0.1% in JEE Mains 2014 (out of 1.3M students (approx))
- Secured rank in top 0.5% In JEE Advanced 2014 (out of 0.15M students (approx))
- Represented KRSSG in Robocup (Germany, 2016). The group made an outstanding debut by winning all matches against 1 team and drew multiple matches against 2 teams.
- Co-author of the talk *SymEngine: A Fast Symbolic Manipulation Library* in Scipy2016 at **Texas (USA)**.