Abhinav Agarwal

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EDUCATION

2014–2018 **B.Tech in Electrical Engineering**, *IIT Kharagpur*.
CGPA - 9.45 (on scale of 10)

May 2014 **12th Grade**, *CBSE*, New Delhi.
Aggregate - 95.4%

COURSEWORK

Undergraduate.
Algorithms, Artificial Intelligence, Machine Learning, Data Analytics, Information Retrieval, Cryptography, Computer Architecture and Operating Systems, Intelligent Systems, Switching and Finite Automata, Principles of Programming Languages.

EXPERIENCE

Goldman Sachs

May 2018 – Present **Analyst**, Technology Division, Bengaluru.
Offered pre-placement offer in technology division at Bengaluru office.

May 2017 – July 2017 **Internship**, Technology Division, Bengaluru.
Worked in enterprise platform at Goldman Sachs, Bengaluru office.

Kharagpur Robosoccer Students' Group

Feb 2015 – Apr 2018 **Team Member**, Artificial Intelligence Team, IIT Kharagpur.
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 three 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.

B.Tech Project

July 2018 –Apr 2018 **Project**, Artificial Intelligence, IIT Kharagpur.
Worked under the guidance of Prof. Debdoot Sheet. Implemented a Reinforcement Learning based system for end-to-end control in driving of autonomous cars.

National Digital Library Project

May 2016 –July 2016 **Internship**, Database Team, IIT Kharagpur.
Worked on metadata normalization and automatic spelling correction.

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

Programming
Languages
Expert: C, C++
Basic: Python, Java, Haskell

Concepts
OOPS, STL, Multithreading, Functional Programming

Platforms
Windows, Linux

Tools
Git, Bash, Gdb, Matlab, Apache Solr, Protobuf, OpenCV, Theano

ACHIEVEMENTS

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