

Ayush Agarwal

Third year Undergraduate,
Computer Science and Engineering,
IIT Kanpur.

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Education

Year	Degree	Institute	CPI
2017(Expected)	B.Tech, Computer Sc.	IIT Kanpur	8.5/10
2013	HSCE	St.Anselm's Sr. Sec. School	89%
2011	AISSE	St.Anselm's Sr. Sec. School	10/10

Achievements

- All India Rank **146** in **JEE**-Advance, 2013.
- **NTSE** and **KVPY Scholar**
- Bronze in **Inter-IIT**(2015) Data Analytics competetion.
- Rank-**1** in International Mathematics Olympiad(IMO) by SOF.
- Among final **35** students selected for **OCSC** Camp for International Physics Olympiad(**IPhO**),2013 .
- Cleared Regional Mathematics Olympiad(**RMO**) and National Standard Examination in Astronomy(**NSEA**).
- Secured **AIR-8** in stage-1 National Science Olympiad(**NSO**) by SOF.

Projects

- **Backend Development and Network Establishment**
under Prof. Manindra Agarwal
 - Developed the backend **Models** and **Api** in **Scala** using the **Akka** framework for handling http requests, **Argonaut** for marshallng/unmarshalling of json, and **Slick** for dealing with **PostgresSQL** database.
 - Developed a Cookie based **Stateless** Authentication System.
 - Established a cross host overlay network among **Dockers** in a **CoreOS** cluster using **Weave**.
- **Hotel Recommendation System**
 - Developed a hotel recommendation based on the customer reviews. Wrote python scripts using **BeautifulSoup** to crawl customer review data from tripadvisor. Used this data for **LDA** to assign rankings to the hotels.
- **Portal for Academic Mentor System for Counselling Service,IITK**
 - Developed an online portal for better interaction of Counselling Service and academically deficient students. Used **MVC** architecture from a **Codeignitor** (php-framework).

Relevant Courses

(*)Ongoing Courses

ESC101	Introduction to Prog.	MSO201	Probability and Statistics
CS210	Data Structure and Algorithms	CS330*	Operating Systems
CS220	Computer Organisation	CS252*	Computing Lab-II
CS251	Computing Lab-I	CS340*	Theory of Computation
CS345*	Algorithms - II	CS653*	Functional Programming in Haskell

Technical Skills

Languages	Scala, C, C++, Python, Php, Dart, Bash Scripting, Verilog
Platforms	Linux, CoreOS, Windows
Tools	Akka, PostgresSQL, Angular, docker, weave, vagrant, Git, Sbt, Octave