

# Pallav Agarwal

Sophomore Undergraduate  
Department of Computer Science and Engineering  
Indian Institute of Technology Kanpur

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## Education

<b>Indian Institute of Technology Kanpur</b>	<i>(July 2014 - Present)</i>
B.Tech in Computer Science and Engineering Cumulative Performance Index (CPI) of 10/10 after 2 semesters	
<b>City Montessori School, Gomti Nagar, Lucknow</b>	<i>(2011 - 2013)</i>
ISC (CISCE) - scored 97.5	
<b>Chinmaya Vidyalaya, Unchahar</b>	<i>(2001 - 2011)</i>
AISSE (CBSE) - CGPA of 10/10	

## Awards and Achievements

### Scholastic Achievements

- Secured All India Rank 188 in JEE Advanced 2014
- Secured All India Rank 475 in JEE Mains 2014
- Secured All India Rank 255 in Kishore Vaigyanik Protsahan Yojana (KVPY) conducted by IISc Bangalore
- National Talent Search Examination (NTSE) 2010 Scholar, conducted by NCERT

### Other Awards and Achievements

- Secured First in Code.Fun.Do organised by ACAD Accelerator, Microsoft
- Rank 7 in CHAOS, Techkriti '15, Annual Tech Fest of IIT Kanpur

## Projects

<b>Robocon 2015</b>	<i>(Oct 2014 - Mar 2015)</i>
<i>Supervisor: Prof. Bhaskar Dasgupta</i>	
<ul style="list-style-type: none"><li>• Developed 2 badminton playing robots to play badminton (doubles) on a real court against the opponent's robots</li><li>• Involved in programming the robot to track and predict the trajectory of shuttlecock using computer-vision techniques</li><li>• Used live video feed from Microsoft Kinect to track the shuttlecock</li><li>• Finished 11<sup>th</sup> among the 85 participating teams</li></ul>	
<b>Creation of a Visual and Interactive Tutoring system for course ESC101</b>	<i>(May 2015 - Present)</i>
<i>Supervisor: Prof. Amey Karkare</i>	
<ul style="list-style-type: none"><li>• Wrote an interpreter for C in python to cover the topics taught in ESC101 (Fundamentals of computing)</li><li>• Simulate a user's C program visually to help understand core concepts</li><li>• Help students avoid common errors by using familiar visual cues (as shown in class slides)</li></ul>	

## Relevant Courses Undertaken

Fundamentals of Computing	Introduction to Organic, Inorganic and Physical Chemistry
Introduction to Calculus	Introduction to Mechanics
Linear Algebra and ODE	Introduction to Electrodynamics
Partial Differential Equations	Engineering Graphics

## Technical Strengths

**Computer Languages:** C/C++, Python, Java, HTML, CSS, Javascript  
**Skills:** OpenCV, AI and Game Theory, App Development  
**CAD:** Autodesk Inventor, AutoCAD, SolidWorks  
**Tools:** Git, L<sup>A</sup>T<sub>E</sub>X, Vim  
**Platforms:** Linux, Windows

## Campus Activities

<b>Member, Robocon 2015 team</b>	<i>(2014 - 2015)</i>
Developed two robots to play badminton against the opponents robots	
<b>Student Guide, Counselling Service</b>	<i>(2015 - Present)</i>
Guiding a group of First Year Undergrads and helping them adjust to campus environment, resolving any problems they face	
<b>Academic Mentor, Counselling Service</b>	<i>(2015 - Present)</i>
Helping First Year Undergrads cope up with studies, as well as conduct Hall, Institute level classes for the weaker students	