

Devashish Kumar Yadav

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2nd year Undergraduate

Computer Science & Engineering

Indian Institute of Technology, Kanpur

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EDUCATIONAL QUALIFICATIONS			
Year	Degree	Institution (Board)	CGPA/%
2015	B.Tech.	IIT Kanpur	8.0*
2012	CBSE-XII	Sarvodaya Sr. Sec. School, Kota	95.0%
2010	CBSE-X	Army Public School, Ahmedabad	9.4

*(After 3rd semester)

SCHOLASTIC ACHIEVEMENTS

- **Topped school** and was in **top 1%** in **AISSCE (XII)** by Central Board of Secondary Education. (2012)
- Offered **INSPIRE Scholarship** by **Department of Science & Technology** for excellent performance in AISSCE. (2012)
- Secured **99.80 percentile** among **1.28 million students** in JEE Mains Exam-2013.
- **Top 0.8%** among 150,000 students in JEE Advance Exam-2013.
- Received **ESSA Scholarship** from **Army Welfare Education Society** for academic performance in school and undergraduate program. (2010,2012,2014)

OTHER ACHIEVEMENTS

- Attended **ACA Summer School, CSE IIT Kanpur** and secured '**A**' in all the courses: (Jun'14)
 - Web Programming(HTML/CSS/JavaScript/basic-PHP)
 - Advance C++
 - Data Structures & Algorithms
- **Won the Command Level Quiz Competition** for Southern Command, Army Public Schools. (2010)
- **Winner** in senior group **Creative Writing competition** for **3 consecutive years** Army Public School, Ahmedabad. (2009-11)

ACADEMIC PROJECTS

➤ **Machine Learning: Digitalisation of scanned text(OCR)** **(May'14-Jun'14)**

-Programming Club, IIT Kanpur

- Worked on **Image Processing in MATLAB** and implemented **Artificial Neural Networks (ANNs)** for optical character recognition in **jpeg/png text images**.
- **Created an image database** using common fonts, used machine learning, and trained artificial neural networks.
- Program outputs a *.txt file containing the text in the images **maintaining lines, words capitalisation and full-stops**.
- Enhancements:
 - Wrote code to **differentiate between comma and full-stops** and separate them from tittle (dot over i and j) during image processing.
 - Wrote codes for symmetric resizing of images to 32x32.
 - Worked on **removing common confusions** like: 5 & S, 1 & l, c & C.

➤ **Personal Home Page** **(Jun'14)**

-ACA Summer School, CSE IIT Kanpur

- Developed a personal home page from scratch under ACA summer school web programming assignment.
- Used **HTML and CSS and JavaScript** for creating interactive web pages.

➤ **TA201: Self Loading Trebuchet** **(Aug'14-Nov'14)**

-Semester Project, Materials Science Dept., IIT Kanpur

- Working in a team of six, built a movable trebuchet with the **main assembly having an independent 360° rotation**, using basic manufacturing processes: Casting, Sheet metal working, welding and brazing.
- **Self-charge feeding using see-saw mechanism** that involved a charge feeder to store small pig-iron balls.

TECHNICAL SKILLS

**to be completed by April'15(CS251, CS220)*

- **Languages:** C/C++, OOP in C++, Matlab, HTML, CSS, *Verilog, *Shell Scripting, *Assembly.
- **Worked with:** LaTeX, Version Controllers (git) and Office tools.
- **Operating Environments:** Linux, Windows.

POSITIONS OF RESPONSIBILITY

- **Head Boy, Army Public School, Ahmedabad** **(2010-2011)**
- **Head of Student Council** of 30 members, and was the disciplinary in charge.
 - **In charge of finance and overall organisation of important school events and functions** like Teachers' Day, Children's Day, etc.
 - Acted as a medium and worked for **improving student-teacher interaction**.
 - Collaborated with teachers for smooth functioning of events like farewells, competitions, and visits by dignitaries.
- **Student Guide, Counselling Service, IIT Kanpur** **(2014-present)**
- Selection through application form and personal interview.
 - Allotted 6 first year students to help them in their registration process during orientation.
 - **Part of the counselling service team for smooth conduction** of the 10 day long orientation program.
 - **Guided the counselees**, helping them adjust to the new campus and **monitoring their emotional well-being and academic performance** throughout the year.

RELEVANT COURSES

ESC101: Fundamentals of computing	ESC201: Introduction to electronics
CS210: Data Structures and algorithms	CS201: Discrete Mathematics(Graph Theory)
*CS220: Computer Organisation	*CS251: Computer Laboratory I
*CS202: Logic in Computer Science	MTH101/102: Calculus, Linear Algebra, Matrices, Differential equations.

**to be completed by April'15*

EXTRACURRICULAR

- Reached **semi-finals in volleyball** in **Intramurals'13 IITK**.
- Played Basketball as CPA in first year.
- Took part in **Skits on Hall Day & Galaxy'14**(Inter-Hall cultural competition).
- **Contingent Leader in march-past** of the group and bagged **2nd prize**.
- **Designed the game 'Simon Says' in Electromania**, Takneek'13.
- **Editor** for 'Expressions' annual school magazine for the year 2010.

INTERESTS/HOBBIES

- Actively participating in **competitive programing contests in college and online.**
- Quizzing, reading current affairs, political news, history.
- Writing, playing basketball and watching movies.