

# SUDHANSHU BANSAL

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## EDUCATION

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**Indian Institute of Technology Kanpur**  
Btech Undergraduate  
Department of Computer Science Engineering

*July 2017 - Present*  
Overall GPA: 8.2/10

## ACADEMIC ACHIEVEMENTS

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**All India Rank 155** JEE MAINS, 160,000 candidates

**All India Rank 604** JEE ADVANCED 1.12 million candidates

**KVPY scholar**

## WORK EXPERIENCE

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**Addverb Technologies, Noida**  
*Speech to text*

December 2018

- Using keras created neural nets trained to pick specific speech words from continuous speech mode.
- Researched on the performance of neural nets like CNN, LSTM-RNN and siamese-NN.

**Summer of Code, IIT Kanpur**  
*Full stack Developer*

May 2018 - July 2018

- Created a web based platform for mentors and students to communicate based on an individuals interest.
- Created chat app using socket programming, database management using mongodb, created a dynamic website using angular

## PROJECTS

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**Internet of Things, Alexa Skill**  
*Programming Club IIT Kanpur*

May 2018 - July 2018

- Worked with various amazon services like Lambda, Alexa skill kit, Rekognition, Kinesis, SNS, S3 bucket, Dynamodb, Mobile sdk
- Created an app which reports the replaced objects in a video
- Connected Android with Alexa, and various other cloud services

**Cyber Security**  
*Association of Computing Activities*

January 2018 - April 2018  
*IIT Kanpur*

- Performed various Capture the flag based on BufferOverflow, Heap Overflow, Shell code injection, sql injection

## HACKATHONS

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### Okta Hackathon

March 2019

- Worked with okta api and created the front end for web in React

### Codechef Hackathon in collaboration with Alibaba Cloud

September 2018

- Worked with Codechef API and created a problem suggestor web app for new competitive programmers
- Placed in the top 10

## RELEVANT COURSES

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Introduction to Programming	Data Structure and Algorithm	Discrete Mathematics
Probability in Computer Science	Logic	Numerical Methods
Computer Architecture	Introduction to electronics	Linear Algebra and Differential Equation
Computing Laboratory	Machine Learning(i)	Theory of Computation(i)
Operating System(i)	Algorithms II (i)	Principles of Programming Languages(i)
i - Ongoing		

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	C/C++(Proficient) , Python, Javascript, Haskell
<b>Web</b>	MEAN, mysql, socket.io
<b>Operating Systems</b>	Ubuntu, Arch
<b>Software &amp; Tools</b>	LaTeX, Git, Kubernetes, Docker, Unity, Matlab, Jupyter Notebook
<b>Libraries</b>	Keras

## POSITION OF RESPONSIBILITY

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### Programming Club

May 2019 - July 2019

*Deep Dive Into CP19 Mentor*

*IIT Kanpur*

- Mentored a group of 15 students teaching them algorithms that are used in competitive programming

### Techkriti 2019 - Technical and entrepreneurial Festival

August 2018 - March 2019

*Event Manager*

*IIT Kanpur*

- Creating, Hosting and Managing software events to be held during Techkriti'19

### Programming Club

April 2018 - March 2019

*Secretary*

*IIT Kanpur*

- Managing various Programming club events and workshops throughout the year

### Academic Mentor

April 2018 - March 2019

*Intro to Programming*

*IIT Kanpur*

- Guided freshers who face difficulty in Programming by hosting Lectures and Doubt-Clearing Sessions.

## INTERESTS

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### Competitive Programming

- Rated expert on [codeforces](#) and highest rating of 5 star on [codechef](#)

### Internet of Things

- Used arduino,FPGA,esp8266,processing,ICs,etc. Won electromaina in takneek.