

# 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: 8.0/10

**Netaji Model School**

12th CBSE

*2017*

Percentage: 91%

**Holy Family Convent School**

10th ICSE

*2015*

Percentage: 94.6%

## ACADEMIC ACHIEVEMENTS

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

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

**KVPY scholar**

## WORK EXPERIENCE

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**Sprinklr, Gurugram**

*Team:Research Role:Backend*

May 2020 - June 2020

- Patched official lucene queryparser for validating results without sending to elasticsearch
- Developed a java based MockJsonServer(returns a dummy json response) for a quick frontend-backend development configured with slackbot
- Created a multithreaded data collection java application with persistence and caching in kafka and hosting it with elasticsearch

**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

## HACKATHONS

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**InterIIT TechMeet**

December 2019

- Placed 6th amongst all IITs in the 24hr long "Capture the Flag" event

**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

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

## PROJECTS

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### Reputation Networks

January 2020 - May 2020

*Undergraduate Project under Swaprava Nath*

- Designing a social network for clustering people based on non-quantitative features
- Designing a judgement system that would determine the various aspects of any non-quantitative art form

### Internet of Things, Alexa Skill

May 2018 - July 2018

*Programming Club IIT Kanpur*

- Worked with various amazon services like Lambda, Alexa skill kit, Rekognition, SNS, S3 bucket, Dynamodb
- Created an app which reports the replaced objects in a video

### Cyber Security

January 2018 - April 2018

*Association of Computing Activities*

*IIT Kanpur*

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

## RELEVANT COURSES

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**Programming** : Data Structure and Algorithm, Algorithms2, Principles of Programming Languages

**Systems** : Operating Systems, Compiler Design, Designing Verifiable Secure Systems, Database Systems, Programming for Performance, Computer Organisation

**Machine Learning** : Intro to ML, Statistical NLP, Linear Algebra and Differential Equations

**Computation**: Discrete Mathematics, Probability in CS, Logic, Numerical Methods, Theory of Computation, Cryptography, Game Theory

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	C/C++(Proficient) , Java, Python, Javascript, Haskell
<b>Web</b>	MEAN, mysql, socket.io
<b>Tools</b>	ElasticSearch, Lucene, Kafka, Kubernetes, Gradle, Keras
<b>Software</b>	Intellij, LaTeX, Git, Docker, Unity, Matlab, Jupyter Notebook

## 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

### 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 **candidate master** on [codeforces](#) and highest rating of **5 star** on [codechef](#)