# Sudhanshu Bansal

Computer Science and Engineering Indian Institute of Technology Kanpur

## **EDUCATION**

2017-Now Bachelor of Technology

Computer Science, IIT Kanpur

CGPA: 8.0/10.0

2017 **12th CBSE** 

Netaji Model School

Percentage: 91%

2015 **10th ICSE** 

Holy Family Convent School

Percentage: 94.6%

## WORK EXPERIENCE

**Sprinklr, Gurugram** May 2020 - June 2020 Team:Research Role:Backend

- 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

Addverb Technologies, Noida December 2018 Speech to text

- 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 May - July 2018 Full stack Developer

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

### HACKATHONS

Okta Hackathon March 2019 Worked with okta api and created the front end

for web in React

Codechef Hackathon September 2018 Worked with Codechef API and created a problem suggesting web app for new programmers Placed in top 10

# AWARDS AND ACHIEVEMENTS

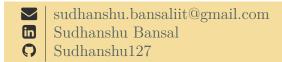
2017 All India Rank 155

JEE Advanced, 160,000 candidates

2017 All India Rank 604

JEE Mains, 1.12 million candidates

2016 KVPY Scholarship awardee Scholarship by IISc, Govt. of India



### PROJECTS

## Reading Comprehension of Abstract Meaning September 2020 - Present

CS779: Statistical NLP

- Assigning abstract words which are highly imperceptible or nonspecific within a given comprehension
- Evaluating the model that is trained on one definition, on another definition.

Reputation Networks Jan 2020 - May 2020 Undergraduate Project under Swaprava Nath

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

**Designing Java Compiler** Jan 2020 - March 2020 CS335: Compiler Design

- Create a Lexer and Parser(LLstar) for Java8
- Created AST using antlar

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

#### Coursework

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 SKILLS

Langs C/C++(Proficient), Java, Python, Javascript, Haskell

Javascript, Hasken

Web MEAN, mysql, socket.io

Web ElasticSearch, Lucene, Kafka, Kubernetes, Gradle, Keras

Utils Intellij, LaTeX, Git, Docker, Unity, Matlab, Jupyter Notebook