

Sudhanshu Bansal

Computer Science and Engineering
Indian Institute of Technology Kanpur



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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 individual's 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 judgement 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 antlr

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 |
| WEB | MEAN, mysql, socket.io |
| WEB | ElasticSearch, Lucene, Kafka, Kubernetes, Gradle, Keras |
| UTILS | IntelliJ, LaTeX, Git, Docker, Unity, Matlab, Jupyter Notebook |