SUDHANSHU BANSAL

☐ (91)9877239648   ✉ sudhanshu.bansaliit@gmail.com   ⚬ Sudhanshu127   in Sudhanshu Bansal

EDUCATION

Indian Institute of Technology Kanpur   *July 2017 - Present*
Btech Undergraduate   Overall GPA: 8.0/10
Department of Computer Science Engineering
Netaji Model School   *2017*
12th CBSE   Percentage: 91%
Holy Family Convent School   *2015*
10th ICSE   Percentage: 94.6%

ACADEMIC ACHIEVEMENTS

All India Rank 155 JEE ADVANCED, 160,000 candidates

All India Rank 604 JEE MAINS 1.12 million candidates

KVPY scholar

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
· Created a multithreaded data collection java application with persistence and caching in kafka and hosting it with elasticsearch

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 2018 - July 2018
Full stack Developer

· 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

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
· Worked with Codechef API and created a problem suggestor web app for new programmers. Placed in top 10

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   January 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   January 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

RELEVANT COURSES

Programming : Data Structure and Algorithm, Algorithms2, Principles of Programming Languages
Systems : Operating Systems, Compiler Design, Designing Verifiable Secure Systems, Database Systems, Programming for Performance(i), Computer Organisation
Machine Learning : Intro to ML, Statistical NLP(i), Linear Algebra and Differential Equations
Computation: Discrete Mathematics, Probability in CS, Logic, Numerical Methods, Theory of Computation, Cryptography, Game Theory(i)
i :- Ongoing Courses

TECHNICAL STRENGTHS

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

POSITION OF RESPONSIBILITY

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

INTERESTS

Competitive Programming

· Rated **candidate master** on codeforces and highest rating of **5 star** on codechef