





# Sai Deexith Kothagundla

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## Academic Qualifications

Year	Degree/Certificate	Institute	CPI/%
2022-2026	B.Tech-Mechanical Engineering	Indian Institute of Technology Kanpur	6.3/10
2022	TSBIE(XII)	Forum for IIT and JEE, Hyderabad	98.0%
2020	CBSE(X)	MDAV Public School , Hyderabad	93.6%

## Scholastic Achievements

- Secured an **All India Rank of 2996** in **JEE Advanced 2022** among the 1.2 Lakh shortlisted candidates by IITB. *2022*
- Secured an **All India Rank of 2779** in **JEE Mains 2022** among 1 Million people in India organized by NTA. *2022*
- Secured **AIR 1334** in **Kishore Vaigyanik Protsahan Yojana Examination 2022** among 1 million people all over India.
- Secured **State rank of 372** in **TSEAMCET** Examination conducted by Telangana board of Education among 1 lakh people

## Key Projects

Stock Prediction of Futures and Options using CNN | GDG Winter Project  *(Nov'24 - Present)*

Objective	● Prediction of premium call and put prices in Futures and options using <b>Reinforcement Learning</b>
Approach	● <b>Data Extration</b> of call options from NSE website using libraries such as <b>beatifulsoup,Selenium,requests</b> . ● Applied <b>Time series forecsting models</b> such as <b>ARIMA,SARIMA</b> on real time data and evaluated the accuracy of these models. ● Use a <b>multi-layer CNN</b> with convolutional and pooling layers to <b>extract time-series features and pat-terns</b> , followed by fully connected layers for trend and price prediction.
Results	● <b>CNN successfully identified complex patterns</b> in stock price movements, achieving an <b>average accuracy of 0.92</b> , offering improved prediction accuracy compared to traditional statistical models.

Casestudy on Netflix | Product Space *(Nov'24-Dec'24)*

Objective	● Problem Identification and feasible solutions for <b>decrease in subscription rates,renewals and traffic</b>
Approach	● Conducted a thorough <b>Market research</b> with the help of <b>Porters forces of analysis</b> and SWOT analysis. ● Conducted <b>diverse behavioral user research</b> across regions, languages, and ages, <b>identifying user pain points</b> to enhance experiences and address unique needs effectively. . ●Conducted <b>GAP analysis</b> to identify business challenges, developed actionable solutions, and formulated a <b>Go-to-Market (GTM)</b> strategy using <b>RICE analysis</b> to prioritize initiatives effectively.
Result	● Introduce flexible tiered plans, including affordable ad-supported options and regional pricing models. ● Provided basic wireframes and designs to ease user navigation and increase engagement

Structure analysis Program | SAP2000 | Descon Society IITK *(Mar'23 - May'23 )*

Objective	● Analyzing and studying about the structures of <b>Bridges, Frame structures and cantilevers</b>
Approach	● Study about the <b>infrastructure of cantilever</b> diagrams and various applications of cantilever bridges ● Study about Different types of <b>frame structures</b> and its applications on designing structure of building ● Study about <b>Trusses structures</b> and its application in bridges

## Technical Skills

Programming Languages	Libraries
C , C++ , $\text{\LaTeX}$ , python ,HTML ,CSS , JavaScript , Figma, AUTOCAD	Numpy,Pandas,Matplotlib

## Positions of Responsibility

Marketing Secretary | Google Developer Student Club IITK *(Jun'23 - Jul'24 )*

- Collected Database of various startup thorough **Market research**
- Approached each startups and alumni through **Linkedin Marketing** and **Email Marketing**
- Succeded in pitching up **5 sponsors** for **GDSC Tech Event**

Core Team Leader | GDG IIT Kanpur *(Nov'24 - present )*

- Organized **GDG infosession**,the very first event of GDG club in IITK with an audience of around 200 people.
- Facilitated winter projects for **400 participants**, efficiently coordinating mentor allocation to ensure personalized guidance, fostering **skill development**, and **enhancing project** outcomes through structured mentorship programs.
- Led a **team of five** to develop an **industrial-level website** for **Spectra UPVC Windows**.

## Relevant Courses *(\*:Ongoing)*

Fundamentals of Computing	Machine Learning (IITK certification)
Introduction to Economics	Linear algebra and Differential Equations
Introduction to Electronics	Introduction to Complex Variables
Partial Differential Equations	Robotics