Shreya Sri

Undergraduate Third Year | B.TECH.
Deparment of Mechanical Engineering

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ACADEMIC QUALIFICATION

Year	Degree/Certificate	Institute	Performance
2020 - Present	B.TECH.	Indian Institute of Technology Kanpur	**6.3**/10.0
2018 - 2020	Class XII (TSBIE)	FIITJEE Junior College, Hyderabad	**97.70%**
2006 - 2018	Class X (SSC)	Sri Chaitanya School	**10**/10

RELEVANT PROJECTS

Invoice Generator| C++ *Self Project*
- Used **Object oriented programming (OOP)** principles and created a program for bill generation used in retail shops
- Implemented **CRUD** (Create Read Update Delete) operations for the administrator and a separate user interface for the buyer

CPI/SPI Calculator| C++ *Self Project*
- Developed a program that calculates the cumulative, semester performance indices (CPI/SPI) with the required appropriate data
- Devised simple code based on **IIT Kanpur's** grading scheme to evaluate the indices which is also accessible to the viewer

TicTacToe Imposible Single Player Game| Python *Self Project*
- Built a single-player Tic Tac Toe game where the player always ends up with either a tie or a loss, but no chance of winning
- Used the **Mini - Max Algorithm**, which minimizes any tendency of losing the game while maximizing the tendency to win
- Utilised **back-tracking** and **recursion** to find the optimal move assuming that the player also plays optimally, in python language

TicTacToe Two Player Game| C++ *Self Project*
- A basic Tic Tac Toe game with 2 players in interactive game mode, using simple C++ programming language

All About An Integer| C++ *Self Project*
- Built a program consisting of a library that can perform different types of operations for any required number - such as calculating its **square root**, listing out its **prime factors**, finding out its **divisors**, calculating greatest common divisor (**GCD**), and least common multiple (**LCM**) with another number, checking if it is a **prime** or a **palindrome** and other such similar functions
- Implemented simple and optimized algorithms such as - the Sieve of Eratosthenes, Binary Search, and The Euclidean Algorithm

Weather-proof Bike Group Project | Fusion360 *Course Project*
- Collaborated in a group of 7 members and fabricated a full-fledged 3-dimensional model of a weather-proof bike

Anti-Vibration Mount light Model| Fusion360 *Course Project*
- Created individual parts of a machine and assembled them accordingly with the appropriate dimensions, using Fusion360

Fabrication Models| Fusion360 *Course Project*
- Created different types of models which are used in the day to day life such as a table fan, bunk bed, windmill, truck, etc
- To view the models, click on the links respectively: fan, swing, wind mill, merry-go-round, slide, bolt-M'1.5

TECHNICAL SKILLS

Languages	Softwares/Tools
C, C++, Python, Java, Latex, MATLAB	AutoCAD, Procreate, Photoshop, Canva, Micro-cap

WORK EXPERIENCE

Tuition HUB| Tutor *June 2021*
- Worked under a start-up as a tutor, provided quality education, and conducted personal sessions with JEE aspirants
- Taught elementary and high school level mathematics and chemistry to students from Australia and Europe as well

RELEVANT COURSES

Fundamentals of Computing	Linear Algebra and ODE	Engineering Design and Graphics
Introduction of Electronics	Fluid Mechanics	Complex Variables

SCHOLASTIC ACHEIVEMENTS

- Secured **All India Rank 3360** in **Joint Entrance Examination (JEE) - Advanced 2020** in OBC Category.
- Secured **All India Rank 685** in **Joint Entrance Examination (JEE) - Mains 2020** in OBC Category.
- Scored **242 marks out of 420** in Birla Institute of Technology and Sciences Admission Test (**BITSAT**) - **2020**
- Secured **Rank 1006 in the TS EAMCET-2020**, conducted by the Jawaharlal Nehru Technological University Hyderabad.