

# Harshit Bhalla

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## EDUCATION

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<b>Indian Institute of Technology, Delhi</b> <i>Bachelor of Technology in Chemical Engineering</i>	8.48 CGPA 2020-24
<b>Sri Sathya Sai Higher Secondary School</b> <i>Class XII</i>	94% 2018-19
<b>Shirdi Sai Public School</b> <i>Class X</i>	10 CGPA 2016-17

## RELEVANT COURSEWORK

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- Linear Algebra
- Probability & Stochastic Processes
- Numerical Computational Analysis
- Advertising & Sales Management
- Intro to Algorithms & DS
- Microeconomics

## EXPERIENCE

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<b>Executive, Economics Club, IIT Delhi</b> <i>Trading and Investment Team</i>	New Delhi, IN Sept 2021
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## PROJECTS

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<b>Pinch-Zoom OpenCV</b>   <i>Python, Open-CV, Mediapipe</i>	August.2021
<ul style="list-style-type: none"><li>• Mediapipe is used to infer real-time 21 3D landmarks of a hand from a single frame.</li><li>• Data augmentation (e.g. rotations, translation and scale) and allowed the network to dedicated most of its capacity towards coordinate prediction accuracy using normalization.</li><li>• Mapped 4th and 8th corresponding 3D coordinates to update real-time distance between the index finger and the thumb.</li><li>• PyAutoGUI was used to control the mouse and keyboard to automate interactions with the program developed.</li></ul>	
<b>Numerical Computational Methods</b>   <i>C++</i>	August.2021
<ul style="list-style-type: none"><li>• Summarized and Implemented Critical appraisal of water quality model parameters, of river Ganges, pre &amp; post COVID-19, India -A Research paper by Kamakshi Singh and Ramakar Jha.</li><li>• Implemented Euler's Method, RK-2&amp; RK-4 method, Heun's method, etc. to formulate Critical temperature of Ganges and analyze dissolved Oxygen, and biological demand levels.</li><li>• Further taken a path forward to predict the parameters in the upcoming years, designing a regression model that analyzed the trend of the past, and had an accuracy more than 95%.</li></ul>	
<b>Quiz System Design</b>   <i>Object Oriented Programming, Python</i>	February.2021
<ul style="list-style-type: none"><li>• Designed an automatic quiz system, through which students can take quizzes in their courses.</li><li>• Attributes implemented were Enrollment No, List of courses, Course Code, Quiz Description, Attempted Answers.</li></ul>	
<b>Expense-Tracker</b>   <i>React, JSX, CSS</i>	May.2021
<ul style="list-style-type: none"><li>• Developed an expense tracker to keep a track of expenses</li><li>• Displays a chart made in CSS, to give a clear visual of yearly filtered expenses fed in by the user.</li></ul>	
<b>Personal Portfolio</b>   <i>JavaScript, HTML/CSS</i>	April.2021
<ul style="list-style-type: none"><li>• Developed a personal portfolio from scratch, without using any frameworks/libraries.</li><li>• Day and night UI, Complex Animations, Completely responsive.</li></ul>	

## TECHNICAL SKILLS

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**Languages:**Python, JavaScript, C++, HTML/CSS  
**Libraries:**OpenCV, Pyautogui, Numpy, Mediapipe, Pandas  
**Frameworks:**NextJS, React, Bootstrap, TailWind-CSS  
**Developer Tools:**Git, VS Code, Netlify, IntelliJ Idea

## PAST ACHIEVEMENTS

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- Achieved AIR 1627 competing with a Million candidates in India's one of the Toughest Examinations(IIT-JEE Adv).
- Secured 99.23 percentile in JEE-Mains.