

Mudit Virmani

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Education

IIT DHANBAD

B.TECH IN CHEMICAL ENGINEERING

2020 - Present Dhanbad, Jharkhand
• CGPA - 7.72

VLM SCHOOL

CLASS XII

2019-2020 Alwar, Raj
Percentage - 93.8

CHINAR PUBLIC SCHOOL

CLASS X

2018-2017 Alwar, Raj
Percentage - 95.2

Links

GitHub **muditvir**
in LinkedIn **muditvir**
Portfolio **muditvir**

Relevant Courses

Data Structures and Algorithm
Economics and Finance
Design Thinking Practices
Process Design and Economics
Machine Learning

Skills

PROGRAMMING

Python • C/C++ • HTML/CSS •
JavaScript

TOOLS

MATLAB • Simulink • Git/Github
• DSA • Linux

COMPETENCIES

Analytics • Software Development
• Data Science • Web Development
• Machine Learning • Problem Solving

Honors

STSE QUALIFIED

SCHOLARSHIP

Among top 1 percent students who
appeared for the examination.

IAYP AWARDED

NEW DELHI

I was one of the students who was
awarded IAYP.

Experience

JP MORGAN CHASE AND CO

VIRTUAL INTERN PROGRAMME

Sept 2022 – Oct 2022 Virtual
• Fixed minor bugs in the code.
• Used JP Morgan Chase frameworks and tools to display stock-price
data visually.

MECHISMU RACING

CODE DEVELOPER

Sep 2021 – July 2022 Dhanbad, Jharkhand
• Currently manufacturing Formula Student Autonomous-Electric
Vehicle.
• Developed a MATLAB script to process tire data which resulted in
reduction of lap time.
• Developed a program to automate BMS calculations and simplify the
process of battery space management in chassis of electric vehicle.
• Working on the code of ADAS systems including ultrasonic sensors
and radar technologies.

Recent Projects

TESSERACT

OPEN SOURCE CONTRIBUTION

Oct 2022 - Present Online
Working on Tesseract - an open source OCR engine.

ADAS SOLUTION

MECHISMU RACING

Feb 2022 – July 2022 Dhanbad, Jharkhand
Worked on software of Advanced Driver Assistance Systems including
ultrasonic sensors and radar technologies used for auto-pilot systems.

TIRE MODELLING

AUTOMOTIVE CLUB, IIT DHANBAD

Feb 2022 – July 2022 Dhanbad, Jharkhand
Build a program to study tyre characteristics from tire data with the help of
algorithms like polynomial regression resulting in decrease of lap time and
tuning of other hardware in vehicle.

STEERING AND SUSPENSION MODEL

AUTOMOTIVE CLUB, IIT DHANBAD

Sept 2021 – Jan 2021 Dhanbad, Jharkhand
Built a simulation model of suspension using Simulink and Simscape

Achievements

PI-EV

May 2022 Virtual
• Participated in Pi-EV, a sub-event of Formula Bharat competition, to
conceptualize and design the powertrain of Electric Vehicle.
• Secured 6th position overall and 2nd among all IITs.

FORMULA IMPERIAL

May 2021 Virtual
• Participated in Formula Imperial, a formula student racing event.
• Secured 4th rank in Engineering Design Presentation.