Abhijeet Sharma

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| **Academic Qualifications** | | | |
| **Year** | **Degree** | **Institute** | **CPI/Percentage** |
| 2019 - Present | B.Tech Chemical | Indian Institute of Technology Kanpur | 6.7/10 |
| 2018 | Class XII (CBSE) | D.A.V Public School ,Jamshedpur | 84.4% |
| 2016 | Class X (CBSE) | D.A.V Public School ,Jamshedpur | 9.0/10 |

# Key Projects

* **CATALYSIS AND DESIGN** | SIMUTECH,IIT KANPUR. *(Feb’21- June’21)*

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| **Objective** | * To find out the most suitable catalyst and optimum parameters for methane cracking. |
| **Approach** | * Studied industrial Cracking processes specially **fluidized bed catalytic cracking** in depth along with its parameters like catalyst type, catalyst life cycle, temperature, economic aspects etc. * Studied the experimental analysis of methane cracking in depth by the help of comparing different aspects like **temperature, catalyst type, metallic support** etc. as well as the different types of **catalyst regeneration** processes and its **degradation**. * Analyzed other different **hydrogen production processes** on the basis of quantity ,quality, renewable/ non-renewable, capital cost etc. |
| **Conclusion** | * Methane cracking is a very efficient way of producing **green hydrogen** and most suitable catalyst for   this process is **Nickel** . |

* **DESKTOP VOICE ASSISTANT** | SELF PROJECT ( [SharmaAbhijeet103](https://github.com/SharmaAbhijeet103))

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| **Objective** | * To Convert voice into virtual task with the artificial intelligence. |
| **Approach** | * Developed an application using a base language of python to accomplish virtual task. * Converted spoken language into string and string back to voice, using the prior voices present in the system using python modules like speech recognition and Pyttsx3. * Made to do other certain tasks like screenshot, search Wikipedia etc. with the help of modules like Pyautogui   , Wikipedia etc. |
| **Conclusion** | * With the help of voice input application was able to do certain tasks like search results , open websites (YouTube, Google) ,screenshot and other interactive task like greeting according with time . |

# Positions of Responsibility

* **Coordinator** | **Secretary** |***FINE ARTS CLUB****| Media and Cultural Council, IIT Kanpur (May’21 - Present)*

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| **Leadership** | * Lead a group of highly enthusiastic second year undergraduates **secretaries** and other members and formed a highly healthy learning environment along with other coordinators * Organized and successfully conducted activities , events and workshops on online platforms. * Collaborated with different clubs of IIT KANPUR to carry out collective events for the campus . |
| **Initiative** | * Organized and hosted online group competition like - **Merge it all** and other event for freshers. Connecting people from **remote location** and helping them to **socialize** under a common platform. * Expanded clubs reach both within the college as well as outside the college by **managing mails** and **social media** handles. * Ensured that the club has to be learning based and output focused too for its **sustainability** and **growth** and for that promoted workshops and events which were both learning based and **output focused**. |

* **Academic Mentor** *(LIF101A) |*

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*Counselling service, IIT Kanpur*

academically mentored students in academics both in **online mode** (doubt sessions) as well as on **one on**

**one contact.**

* + Remained a major first point of contact for a number of students throughout the online semester.

# Technical Skills

**Programming**: C, C++, Python, JavaScript,HTML-CSS.

**Software & Utilities**: MS Excel , Adobe Photoshop, AutoCAD.

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| **Relevant Coursework** | ***\* Online Courses*** |

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| Fundamental of Computing | JavaScript\* | Thermodynamics |
| Fluid Mechanics And its Application | Python\* | Data Structures and algorithm\* |

# Extra-Curricular Activities

* + - Performed a **speed art** on Republic Day celebration at IIT KANPUR under **Fine Arts Club** and **CCA**.
    - was a part of the **INTER IIT CULT MEET team** for CULT MEET at IIT BOMBAY.