# ▶V. Pavan Kumar

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### **Objectives**

To choose a career path where I can excel, enhance my knowledge and experience towards chemical engineering through continuous learning and efficient working in an esteemed organization.

## Education

Degree/Certificate	Year of passing	Institute/School	University/Board	CGPA / %
B.Tech Chemical Engineering	2021	NIT Srinagar	NIT Srinagar	7.00 (CGPA)
H.S.C	2017	Kendriya Vidyalaya Guntur	CBSE	77.6%
S.S.C	2015	Kendriya Vidyalaya Guntur	CBSE	8.00 (CGPA)

# 1) CSIR-IICT Hyderabad (23<sup>rd</sup> December 2019 – 20<sup>th</sup> February 2020)

- Researched various subjects that were related to project
- Planned, modified, executed research techniques, procedures and tests.
- Drafted new and updated designs using Comsol Multiphysics Software for CFD simulations.
- Supported research and development efforts to create new processes.

## Internships

2) IIT Mandi (20<sup>th</sup> September 2019 – 20<sup>th</sup> October 2019)

# "Electrolysis and waste water analysis"

- Done literature survey and presented information to appropriate authorities.
- Designed, prototyped and tested electrolysis systems.
- Gathered and arranged data to create representative graphs for presentations.

### 1) "Synthesis of ibuprofen in a batch reactor using Comsol Multiphysics"

#### **Projects**

- 2) "Mixing enhancement in micro-channels using Comsol Multiphysics"
- Done literature survey about mixing in various micro-channels.
- N-24-il aerofoil shaped obstruction is used to increase the mixing efficiency through generation of vorticity, split and recombination of the fluid.

<sup>&</sup>quot;Emulsion polymerization of vinyl acetate in micro-reactors and CFD analysis of pulse sieve plate column reactor"

#### Presented a paper entitled "Enhancements in micro mixing amidst junction variation coupled with induced cavities for immiscible fluids" in CHEMCON-2020 using Comsol Multiphysics. Conferences Presented a paper entitled "A Pilot Plant Study for Conversion of Cellulose to Hexane" in ESTEEM-2021 using Aspen Plus. **Comsol Multiphysics** Aspen Plus Software's Microsoft Office Matlab Python (Jupyter notebook) Professional Simulation Modeling Presentation Chemical analysis **Skills** Personal Communication Multitasking abilities Adaptability Quick learning Social Understanding Curiosity School literary and house captain. Participated in National Children's Science Congress and Social Science Congress Accomplishments regional level competitions. & Participated and won in some poetry competitions conducted by various organizations. Awards Participated in Chess and Skating in various school, regional, college level competitions. **Sort Term** One week online short term on *Energy and its applications* organized by department of Course chemical engineering, National Institute of Technology Srinagar. English Hindi Languages Telugu Chess **Trekking Hobbies** Walking Cycling

Declaration:

I hereby declare that the information provided by me is true my belief and knowledge.

01-07-2021

Vangara Pavan Kumar