

# Nandita Suresh

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## EXPERIENCE

<b>DOW Chemical</b> <i>Hardware Discipline Engineer</i>	Chennai, India Jul 2022 - Present
<ul style="list-style-type: none"><li>Increased the project work share percentage between Netherland's site and Engineering office from 7.3% to 8.6% in 2023</li><li>Acted as the Lead Mechanical Engineer for UK small projects &amp; Focal for Netherlands small projects</li></ul>	
<b>DOW Chemical</b> <i>Hardware Discipline Engineer - Intern</i>	Chennai, India Jul 2022 - Present
<ul style="list-style-type: none"><li>Evaluated the stress &amp; thickness calculations for tanks as per ASME Section VIII</li><li>Analysed pump selection procedure according to the process requirements</li></ul>	

## EDUCATION

<b>Purdue University</b> <i>Masters in Industrial Engineering - PMP</i>	West Lafayette, IN Aug 2024 - May 2026
<b>Sri Sivasubramaniya Nadar College of Engineering</b> <i>B.E. Mechanical Engineering; GPA: 9.38/10</i>	Chennai, India Aug 2018 - May 2022

## TECHNICAL SKILLS

**Programming Language:** Python, C++, SQL  
**Tools:** PowerBI, Minitab

## VOLUNTEERING AND LEADERSHIP

<b>U&amp;I - Non-profit Organization</b> <i>Leadership &amp; Volunteer</i>	Chennai, India Jun 2021 - Apr 2023
<ul style="list-style-type: none"><li>Taught literature lessons for students in an orphanage every weekends for 3 hours</li><li>Assumed the added responsibility of overseeing a learning circle comprised of 5 volunteers and 10 children</li></ul>	
<b>Office Bearer for Association of Mechanical Engineers - SSN College</b> <i>Leadership</i>	Chennai, India Jun 2021 - May 2022
<ul style="list-style-type: none"><li>Successfully organized the first-ever online technical symposium called "INVENTE," attracting a 15% increase in participant turnout compared to the previous year</li><li>Handled finance, event operations, digital marketing, and design, which provided a holistic understanding of event management and logistical intricacies</li></ul>	

## PROJECTS

<b>Design and Fabrication of Solenoid Winding Machine using Arduino</b> <i>Automation, Arduino</i>	SSN College, India Jan 2021 - May 2021
<ul style="list-style-type: none"><li>Built a model of solenoid winding machine to wind transformer coils to reduce human effort by more than 50%</li><li>Understood basics of Arduino programming to automate the winding process</li></ul>	
<b>Investigation On The Surface Topography, Microstructure And Properties Of Additive Manufactured Stainless And Maraging Steels</b> <i>Additive Manufacturing, Steel properties</i>	SSN College, India Aug 2021 - Apr 2022
<ul style="list-style-type: none"><li>Corrosion rate for wrought 316L sample was twice the corrosion rate of the DMLS 316L sample. Hence, in areas of critical applications, where the material has to undergo lesser corrosion, investing in additively manufactured steels is a better option</li></ul>	

## BLOGS & PUBLICATIONS

<b>BRIDGING ADDITIVE MANUFACTURING AND BIG DATA THROUGH INDUSTRY 4.0.</b> <i>Additive Manufacturing, Industry 4.0</i>   <a href="#">Link</a>	Apr 2021
<b>Introduction to Explainable AI</b> <i>Artificial Intelligence, Machine Learning</i>   <a href="#">Link</a>	Jun 2021

## AWARDS

<b>Runner- up place in INVENTE 5.0 – Data Utopia event</b> <i>Engaged in cleaning up raw data using Python and getting valuable insights for better understanding</i>	SSN College Feb 2021
<b>Winner of the event METTLE'22 -METADATA</b> <i>Extracted the appropriate data and generated a Machine Learning model for the given problem statement dataset</i>	NIT Trichy Jan 2022