

## Ms. Aditi Wandale

3<sup>rd</sup> Year, Chemical Engineering

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LIT  
University

### Career Objective

3<sup>rd</sup> Year undergraduate student passionate about applying Artificial Intelligence and Machine learning into various aspects of Chemical Engineering. Interested in research related to solving real world problems in chemical industries through the same.

### Academic Details

Enrolment No: 20241001209

Qualification	Year	Semester	Board / University	Institute	SGPA	Percentage
B. Tech Chemical Engineering	2026	VI	Laxminarayan Innovation Technological University, Nagpur	LIT University	TBA	TBA
	2025	V		LIT University	6.65	63.13
	2025	IV		LIT University	7.33	69.50
	2024	III		LIT University	6.2	61.75
Diploma	2024	-	Autonomous	Government Polytechnic Nagpur (Diploma in Artificial Intelligence and Machine Learning)	-	93.05

### Internships

#### V.R.Jamdar Siemens Center of Excellence

Summer Internship

VNIT, Nagpur

January 2024-April 2024

- As an intern at the V.R.Jamdar Siemens Center of Excellence, I got to learn about the different aspects of Industrial Automation 4.0.
- I worked in various labs such as IoT, Automation, Mechatronics , Designing, IIoT and Process Instrumentation.

### Projects

#### Extracting data from PLC and visualising it using Grafana Dashboard

- The project extracts data from PLCs, transforms it into a format compatible with Grafana, and presents it through an intuitive web interface.
- By leveraging the versatility of Node-RED, the interoperability of UAExpert, and the scalability of Influx DB, we have created a streamlined pipeline for collecting, storing, and visualizing real-time and historical data from PLC.

#### Wastewater treatment plant digital twin dashboard and phosphorus content prediction using LSTM

- Created a digital twin dashboard that displays the various parameters of WWTP using Agtrup dataset.
- Trained and LSTM on over 500000 datapoints to predict the phosphorus content in water.

#### BioPINNacle

- Trained a Physics informed neural network model on bioethanol fermentation data for various types of biomass(Cassava, Sorghum, Maize).
- Created an application for process modelling of fermentation using ReactFlow.

### Publications & Conferences

- Presented Poster at

- IIche CHEMCON in "AI Driven Chemical Engineering Processes Transformation and Sustainability" organized by Indian Institute of Chemical Engineers, Annamalai Regional Centre in December 2025.

### Courses & Certifications

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- Python for Data Science, AI & Development (Coursera)
- Introduction to Machine Learning (Coursera)

### Additional

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**Skills:** Python, R (Language), Streamlit, Pytorch, PLC Programming, HMI, SCADA

Hobbies: reading, writing, playing bansuri.

**Address for Correspondence:**

Address : Plot no. 15, Saikrupa Society, Manish Nagar, near UCO bank (Somalwada Branch), Nagpur- 440015

**LinkedIn Profile: aditiwandale**

I hereby acknowledge that the information provided above is correct to the best of my knowledge.

**Aditi Wandale**

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**LAXMINARAYAN INNOVATION TECHNOLOGICAL UNIVERSITY, NAGPUR**