

PRANAV KUMAR

Final Year, RGIPT | Chemical Engineering Undergraduate

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[Pranav Kumar](#)



OBJECTIVE

A competent, hard-working individual aiming to add value to the industry through the application of my core-technical knowledge.

EDUCATION

| Examination | Institution | Year | CPI/CGPA/% |
|---------------------------------|--|----------------------|------------|
| B. Tech in Chemical Engineering | Rajiv Gandhi Institute of Petroleum Technology | 2019-23 [^] | 7.94*/10 |
| XII, (C.B.S.E) | Ishan International Public School | 2018 | 86.40 % |
| X, (C.B.S.E) | Ishan International Public School | 2016 | 10/10 |

[^] Tentative/expected, * till 6th Semester

INTERNSHIPS

Machine Learning Project Intern | Caliche Pvt. Ltd

(January, 22 – April, 22)

TOPIC: Defect Detection in Steel Metal Sheets using Convolutional Neural Network.

- Implemented semantic segmentation network for automation of Defect Detection in Steel Metal Sheets.

Summer Internship | HPCL, Visakh

TOPIC: Product Parameters and Quality Control in CDUs.

(14th May, 22 – 27th June, 22)

- Learned about operational parameter changes to counteract the deviations in various product parameter test results for quality control of CDU products.

PROJECTS

TOPIC: Corrosion Behaviour of Ni-Alloy in Biodiesel Synthesized from Karanja Oil. (1st July, 22 – 21st August, 22)

Faculty Advisor: Dr. Deepak Dwivedi

Objective: To study corrosion behaviour of Ni-Alloy in biodiesel environment for biodiesel storage application.

- Calculated corrosion rate using static immersion test and weight loss method.
- Conducted surface morphology and surface characterization study using various techniques like FE-SEM, EDS, XRD and XPS.

TOPIC: Prediction of biogas production from Anaerobic Digestors using Machine Learning Algorithms.

Faculty Advisor: Dr. Deepak Dwivedi

(23rd August, 22 – 20th September, 22)

Objective: To build a predictive model and study effect of various feedstock characteristics on biogas production.

- Used Random Forest Regression model, XGBoost Model and Artificial Neural Network for prediction of biogas production rate.
- Performed sensitivity analysis of various feedstock characteristics on Biogas Production Rate.

ACHIEVEMENTS

- Qualified GATE-2022 (CH) in first attempt.
- Secured All India Rank 16779 among 1,50,000 Candidates in JEE Advanced 2019.

TECHNICAL SKILLS

- Programming Languages:** C, MATLAB, Python
- Tools/Software:** Aspen Plus, Ansys, AutoCAD, MS Excel
- Skill:** Modelling using AI/ML tools.

POSITIONS OF RESPONSIBILITY

- Editorial and Documentation Head | AIChE RGIPT Student Chapter** (June, 21- February, 22)
- Event Management Volunteer | Urjotsav-2019, RGIPT Tech Fest.**

CONFERENCES/WORKSHOPS ATTENDED

- Participated in the AIChE Student Regional Conference – 2021. (27th August, 21 – 29th August-21)
- Took short term course on “Experimental and Numerical approaches to Two – Phase Heat Transfer (ENTPHT - 2021)” organized by Department of Mechanical Engineering NITK, Surathkal. (27th Dec., 21 – 31st Dec., 21)
- Participated in oral and poster presentation in IChE, SCHEMCON, 2022 Conference. (23rd September, 22 – 24th September, 22)