

YAMINI KANDREGULA

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EDUCATION

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| National Institute of Technology Tiruchirappalli <i>Bachelor of Technology, Chemical Engineering CGPA: 8.59/10</i> | Tamil Nadu, IN 2019 – 2023 |
| Sri Chaitanya Junior College <i>BIEAP Courses: Physics, Chemistry, Maths, English, CGPA: 9.63/10</i> | Andhra Pradesh, IN 2017 – 2019 |
| Good Shepherd School <i>CICSE PERCENTAGE: 89.93%</i> | Andhra Pradesh, IN 2016 – 2017 |

EXPERIENCE

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| Research Intern <i>Indian Institute of Technology Kanpur</i> <ul style="list-style-type: none">Working on Research Project based on Docking of 6YB7 COVID-19 protease molecule and various drugs using GROMACS, VMD for Molecular Dynamics simulations and Machine Learning for filtration of drugs, under the guidance of Dr. Anikesh Pala, Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Kanpur. | May 2021 – Present Kanpur, IN |
| Summer Intern <i>Indian Institute of Petroleum And Energy</i> <ul style="list-style-type: none">Developing various Machine Learning models for defense against Adversarial Attacks on Water Distribution Systems, under the guidance of Dr. Venkata Reddy, Assistant Professor, Department of Chemical Engineering, Indian Institute of Petroleum and Energy. | May 2021 – Present Visakhapatnam, IN |
| Research Intern <i>National Institute of Technology Tiruchirappalli</i> <ul style="list-style-type: none">Working on various Research Projects on topics related to kinetics of Biomass using ASPEN PLUS and MATLAB-SIMULINK software's under the assistance of Dr. Sourav Poddar, Post- Doctoral Fellow, National Institute of Technology Tiruchirappalli. | June 2021 – Present Trichy, IN |
| Online Summer Internship Program <i>Indian Institute of Chemical Engineering</i> <ul style="list-style-type: none">A three-month long program focused on Chemical Process Technology, where I learnt about several industrial processes from experts and authored a report on the same. | Aug 2020 – Oct 2020 IN |

RESEARCH PAPERS

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| Yamini, K., Gearard Deepak., Santhanavijayan, A.(2021). FluidMonto: Modelling, Evaluation and Visualization of Ontologies for Fluid Mechanics as a Domain of Choice. Manuscript Submitted. <ul style="list-style-type: none">This paper aims to create and divulge a chemical ontology that may interpret Fluid Mechanics based on its features and properties using Web Protégé RDF model. |
| Yamini, K., Gearard Deepak., Santhanavijayan, A.(2021). ParticleOnto: Modelling and Visualization of Ontologies for Particle Science as a Domain. Manuscript Submitted. <ul style="list-style-type: none">This paper attempts a novel approach to model Powder Technology as a domain in Chemical Informatics using XML and Web Protégé in a Semiotic methodology. |

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, HTML/CSS
Frameworks: Web Dev, TensorFlow
Specialization: Machine Learning, Deep Learning
Modeling and Analysis: MATLAB - SIMULINK, Excel VBA, ASPEN PLUS

EXTRACURRICULAR ACTIVITIES

- Pursuing **Minor in Management** from DoMS (Department of Management Studies), NIT Trichy.
- Attended workshop on Deep Learning for Computer Vision, conducted by PROBE, NIT Trichy.
- Attended 7-day Bootcamp on Computer Vision, conducted by SHAPEAI
- Awarded an **NSS Medal** in 2020, for India Book of Records -It was the largest awareness program of NSS (NIT TRICHY) on plastic hazards, which reached the India book of records
- Team Player** in NIT Trichy Kho-Kho Girls Team.