YAMINI KANDREGULA

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EDUCATION

National Institute of Technology Tiruchirappalli — Tamil Nadu, IN
Bachelor of Technology, Chemical Engineering | CGPA: 8.59/10 — *2019 – 2023*

Sri Chaitanya Junior College — Andhra Pradesh, IN
BIEAP Courses: Physics, Chemistry, Maths, English, CGPA: 9.63/10 — *2017 – 2019*

Good Shepherd School — Andhra Pradesh, IN
CICSE PERCENTAGE: 89.93% — *2016 – 2017*

EXPERIENCE

Research Intern — May 2021 – Present
Indian Institute of Technology Kanpur — *Kanpur, IN*
- Working on Research Project under the guidance of Dr. Anikesh Pala, 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.

Summer Intern — May 2021 – Present
Indian Institute of Petroleum And Energy — *Visakhapatnam, IN*
- Under the guidance of Dr. Venkata Reddy, developing various Machine Learning models for defense against adversarial attacks on Water Distribution Systems

Research Intern — June 2021 – Present
National Institute of Technology Tiruchirappalli — *Trichy, IN*
- Working on various Research Projects under the guidance of Dr. Sourav Poddar, on topics related to kinetics of Biomass using ASPEN PLUS and MATLAB-SIMULINK software's.

Online Summer Internship Program — Aug 2020 – Oct 2020
Indian Institute of Chemical Engineering — *IN*
- 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.

RESEARCH PAPERS

Yamini, K., Gearard Deepak., Santhanavijayan, A.(2021). FluidMOnto: Modelling, Evaluation and Visualization of Ontologies for Fluid Mechanics as a Domain of Choice. Manuscript Submitted.
- This paper aims to create and divulge a chemical ontology that may interpret Fluid Mechanics based on its features and propertiesusing 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.
- This paper attempts a novel approach to model Powder Technology as a domain in Chemical Informatics using XML and Web Protégéin 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

EXTRACIRRCULAR 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.