

# J YADAGIRI

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<https://yadagiri.cfd>

## SUMMARY

Currently pursuing the final year of my M. Tech. in Thermal and Fluids Engineering augmented with Machine Learning and Artificial Intelligence at Amrita Vishwa Vidyapeetham, Amritapuri campus, Kerala, and backed by two years of professional experience as a Junior Design Engineer, I am actively seeking opportunities in CFD engineering and applied machine learning. My academic and project background blends core thermal fluid sciences with AI/ML techniques, equipping me to solve complex engineering problems with data-driven approaches.

## EXPERIENCE

### Ananth Technology Private limited - Junior Designer Engineer

October 2021 - June 2023

- Hyderabad, India
- Assisted in 2D and 3D modeling and design of Tilt-up concrete panels using AutoCAD and Revit.
- Collaborated with teams to ensure design precision and structural integrity.

## PROJECTS

### Analysis of Laminar Flow Over a Cut-Section Cylinder Using OpenFoam (CFD)

- M.Tech Final Year Major Project
- Modeled the cut-section cylinder using Ansys and imported it into OpenFoam for analysis.
- Visualized flow behavior at low Reynolds numbers.

### Heat Transfer Through Porous Media

- M.Tech Mini Project
- Analyzed heat transfer, velocity, and vorticity behavior through a NuFoam model.

### Design & Analysis of Residential Building Using Staad.pro

- B.Tech Final Year Project
- Conducted load and structural analysis, and optimized design using Staad.pro.

### The Design and Application of Prestressed Concrete

- B.Tech Final Year Major Project
- Explored methods of prestressing and major applications of prestressed concrete.

## EDUCATION

### Amrita Vishwa Vidyapeetham

- M.Tech. - Thermal and Fluids Engineering.  
Kerala, Kollam • Expected 2025

### Sree Vishweshwaraya Institute of Technology of Science

- B.tech - Civil Engineering  
Mahabub Nagar, Telangana • 2021

### TSWREIS - Intermediate - MPC

Wanaparthy, Telangana • 2017

## CERTIFICATIONS

### Computational Fluid Dynamics offered by Siemens

Siemens • 2024 • CFD analysis, Flow visualization

## LANGUAGES

Telugu  
English  
Malayalam

## COURSEWORK

### Introduction to the OpenFoam

Amrita School of Engineering • 2023

## SKILLS

AutoCad Revit    Ubuntu  
Staad.pro    Machine Learning  
OpenFoam  
Ansys - Fluent

## Area of Interest

- CFD - Analysis,
- Fuel Cell,
- Renewable Energy.
- Machine learning
- Oil & Gas