

# J Yadagiri

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## Summary

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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

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**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

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### 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

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**Amrita Vishwa Vidyapeetham,** (Expected 2025)

- **Master of Technology (M.Tech)**
- Thermal and Fluids augmented with Machine learning and Artificial intelligence.
- Amritapuri Campus, Kerala

( 2021)

**Sree Vishweshwaraya Institute of Technology of Science (SVITS),**

- **Bachelor of Technology (B.Tech)**
- Civil Engineering.
- Mahabub Nagar, Telangana

( 2017)

**Telangana Social Welfare Residential Educational Institutions Society (TSWREIS),**

- **INTERMEDIATE - MPC,** Wanaparthy, Telangana

## Certifications

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- Computational Fluid Dynamics
- OpenFOAM
- Rocket Propulsion and Space Dynamics
- Industrial Automation, SCADA, and PLC,
- Generative AI, Artificial Intelligence, and Deep Learning,

## Skills

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- AutoCAD
- Revit
- Staad.Pro
- OpenFOAM
- Ansys-Fluent
- Tecplot 360
- Gmsh
- ParaView
- Machine Learning
- Deep Learning

## Languages

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- Telugu
- English
- Malayalam

## Area of Interest

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- Computational Fluid Dynamics (CFD)
- Machine Learning for Engineering Applications
- Aerospace Engineering and Rocket Propulsion
- Industrial Automation and IoT
- Sustainable Energy Systems
- Structural Analysis and Design Optimization