J YADAGIRI

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SUMMARY

Final-year M.Tech student in Thermal and Fluids Engineering at Amrita Vishwa Vidyapeetham with a strong application of AI/ML. 2 years of professional experience as a junior design engineer at Ananth Technology, involved in 2D/3D design and execution of large-scale Texas-based building projects. CFD-focused academic and industrial projects using OpenFOAM, Paraview, ANSYS, etc. Strong foundation in AutoCAD, Staad.Pro, Python, and machine learning for predictive modelling in engineering. Keen interest in aerospace propulsion, cryogenics, and data-driven fluid dynamics.

WORK EXPERIENCE

Online Research Intern – Subsonic Aircraft.   *Aug 2025 - Oct 2025*

Simulation Lab®, Pune.

- Performing aero-thermal simulations for subsonic aircraft models using ANSYS Fluent.
- Assisting in flow optimisation and performance prediction for subsonic flight regimes.
- Employee ID: PDC4502/AGAZ2.

Online Research Intern – Defense R&D Intern   *Aug 2025 - Oct 2025*

Prime Toolings, Bengaluru.

- Performing CFD and FEA simulations for aero-thermal and structural analysis of propulsion and aerostructure components.
- Participating in real-time testing and validation for inert/demo missile kits and propulsion components.

Junior Design Engineer   *Oct 2021 - May 2023*

Ananth Technology Private Limited, Hydearbad.

- Designed and developed tilt-up concrete panels in AutoCAD and Revit for 32 Texas-based buildings.
- Delivered over 2,600 prefabricated panels, ensuring compliance with design codes.
- Contributed to collaborative construction detailing and optimisation workflows.

EDUCATION

Masters in Thermal and Fluids Engineering   *Aug 2023 - Aug 2025*

Amrita Vishwa Vidyapeetham, Kerala.

- CGPA: 8.56, Relevant Courses: Thermal, Fluids, Machine Learning, Deep Learning, Pneumatics.

Bachelor's on Civil Engineering   *Aug 2017 - Aug 2021*

Sree Visvesvaraya Institute of Technology & Science (Under JNTUH), Mahabubnagar.

- CGPA: 6.92, Relevant Courses: Structural, Designing, Architectural.

SKILLS

CAD/CAE:	AutoCAD, Staad.Pro, Onshape, CATIA V5, SolidWorks, FEA (ANSYS, HyperMesh)
CFD & Simulation:	Gambit, OpenFOAM, ANSYS Fluent, Tecplot, ParaView
Programming:	Python (ML/DL), MATLAB
Engineering:	Vehicle Dynamics, Multibody Dynamics, Thermal Systems, Fluid Mechanics, Structural.

PROJECTS

- Investigation of Fluid Flow Over a Heated Cylinder Covered with Porous Media – using OpenFOAM
- Earthquake Prediction Analysis (ML) – Logistic Regression, KNN, Random Forest
- CFD Analysis of a Shell and Tube Heat Exchanger – using OpenFOAM
- External Aerodynamic Analysis of SR-72 Blackbird Aircraft – using Ansys Fluent
- Forex Exchange Rate Prediction (DL) – LSTM, GRU models in Python
- Heat Transfer Through Porous Media – OpenFOAM-based simulation and analysis
- Design and Analysis of Residential Building – Using Staad. Pro Load analysis
- Prestressed Concrete Design and Applications – Analysis using Staad.Pro

CERTIFICATES

- Generative AI for Everyone, DeepLearning.AI | 33Y4LBV30DK8
- Rocket Propulsion and Spacecraft Dynamics, Kodacy | 6c3fed08bd514382
- Applied Computational Fluid Dynamics, Siemens | H15RN6IQ62I0
- Introduction to OpenFOAM, Udemy | UC-04d6e46e-6afb-479f-af24-49666c1ef8cc

LANGUAGES

Telugu,
English,
Malayalam