J YADAGIRI, CFD ENGINEER

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SUMMARY

- Final-year M.Tech student in Thermal and Fluids Engineering at Amrita Vishwa Vidyapeetham with strong application of AI/ML.
- 2 years of professional experience as 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.

EXPERIENCE

Ananth Technology Private Limited — *Hyderabad*
Junior Design Engineer — *Oct 2021 – Jun 2023*

- 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 optimization workflows.

PROJECTS

- **Heat Transfer Through Porous Media** – OpenFOAM-based simulation and analysis — *Oct 2023–Jan 2024*
- **Design and Analysis of Residential Building Using Staad.Pro** – Load analysis and optimization — *Aug 2020–Dec 2021*
- **Prestressed Concrete Design and Applications** – Analysis using Staad.Pro — *Feb 2021–Jul 2021*
- **Forex Exchange Rate Prediction (DL)** – LSTM, GRU models in Python — *Jan 2024*
- **Earthquake Prediction Analysis (ML)** – Logistic Regression, KNN, Random Forest — *May 2024–May 2025*

EDUCATION

- **M.Tech in Thermal and Fluids Engineering**, Amrita Vishwa Vidyapeetham, Kerala — *Aug 2023–Present*
- **B.Tech in Civil Engineering**, Sree Vishweshwaraya Institute of Technology of Science, Telangana — *Aug 2017–Jul 2021*
- **Intermediate (MPC)**, TSWREIS Wanaparthy, Telangana — *Jul 2015–Mar 2017*
- **10th – Sathya Sai Vidya Nilayam**, Kollapur, Telangana — *Mar 2015*

CERTIFICATIONS

- **Applied Computational Fluid Dynamics**, Siemens | H15RN6IQ62I0 — *Sep 2024*
- **Generative AI for Everyone**, DeepLearning.AI | 33Y4LBV30DK8 — *Feb 2025*
- **Introduction to OpenFOAM**, Udemy | UC-04d6e46e-6afb-479f-af24-49666c1ef8cc — *Nov 2024*
- **Rocket Propulsion and Spacecraft Dynamics**, Kodacy | 6c3fed08bd514382 — *May 2024*

TECHNICAL SKILLS

- **CFD Tools:** Gambit, OpenFOAM, ANSYS Fluent, Tecplot, ParaView
- **CAD/CAE:** AutoCAD, Staad.Pro
- **Programming:** Python (ML/DL)
- **Engineering:** Structures, Thermal systems, Fluid mechanics
- **ML/AI:** ANN, LSTM, GRU, Logistic Regression, KNN, Random Forest
- **OS:** Ubuntu/Linux

PUBLICATIONS

- **Impact of a Notch Cut on the Drag Characteristics of a Circular Cylinder** – To appear, ICAANA Conference — *Jul 2025*

WORKSHOPS

- **SCADA and PLC-Based Industrial Automation**, Institution's Innovation Council, JANATICS at Amritapuri campus — *Dec 2024*

TESTS & INTERVIEWS

- **Services Selection Board (SSB) Interview**, SSC (Tech)-59 | Roll No. 733679 | Bhopal — *02-July-2022 – 06-July-2022*
- SSB/Batch: 21 SSB(C)/72108

LANGUAGES

Telugu: Native Proficiency
English: Professional Working Proficiency
Malayalam: Professional Working Proficiency
Hindi: Limited Working Proficiency