Dipendra

Kush

Aditya

Gowri

Kunal

Subhrajyoti

Himanshu

Priyansu

Vidhi

Mehul

Shraman

Deepak

Manish

Sugesh

**Kush**

1. Name Last Name: Kush Pandya

2. Ur position in lab: Mtech Research

2. Year of joining lab: August 2022

3. Two short sentences about ur work: During my master’s, I explored aerodynamic shape optimization and investigated the impact of discretization errors on the resulting optimal geometry. Additionally, I developed strategies to control these errors within the shape optimization cycle using adaptive mesh refinement.

4. Ur hobbies (sketching/dancing/trekking/singing etc. ): Tabble tennis

5. For ex Lab members: presently where u r working.: GE Aerospace

**Shraman**

Shraman Maiti

Project Associate

July 2023

Mesh adaptation for heat flux prediction in hypersonic flows. Pipelining CFD++ with Refine

Singing, Reading and impulsive buying

MTech Research, IIT Madras

**Vidhi**

1. Name LastName: vidhi patel

2. Ur position in lab : mtech student

2. Year of joining lab :2024

3. Two short sentences about ur work: mesh adaptation for hypersonic flows using refine and icfd++.

4. Ur hobbies: dancing (sketching/dancing/trekking/singing etc. )

5. For ex Lab members: NA

**Priyansu**

Name: Priyansu Tank

Lab position: M.Tech. Student

Lab Joined: 2024

Work: Building metric adapted anisotropic mesh generator for CFD simulations from scratch. (Basically, lot of triangles 📐)

Hobbies: Stargazing, satellite tracking, synthesizers

Presently: CHESS, DRDO, Hyderabad

**Gowri**

Gowri M V

Project Associate 1

Dec 2022

Have worked on a project funded by Indian Space Research Organization (ISRO) in

metric based mesh adaptation for quad meshes. Optimal metric field was analytically obtained for quad meshes. Explored the use of Lp CVT (Centroidal Voronoi Tessellations) for optimal quad meshes. Exploring viability and accuracy of various error estimators for adaptation to determine optimal density

**Mehul**

**Name:** Bakhshi Mehul

**Year of Joining:** August 2023

**Position:** KIAC Predoctoral Fellow

**Research:** The research involved the implementation of machine learning models for expediting the metric-based mesh adaptation process. Sequential ensemble models and neural operators were utilized to predict computationally-expensive adjoint-based error estimators.

**Hobbies:** Playing lawn tennis, swimming and listening to music

**Present work:** PhD student at George W. Woodruff School of Mechanical Engineering, Georgia Institute of Technology.

**Manish**

1. Manish sharma

2. Mtech student

3. 2025

4. NA

5. Sketching,Roller hockey

**Sugesh**

1. Sugesh Kumar S

2. MTech

2. 2025

3.Simulation of Hypersonic Flow around the cylinder using Large Eddy Simulations.

4. Hobbies: Badminton, Cricket and Geopolitics.