**SAGAR SRIVASTAVA**

# PROFILE

Enthusiastic Aerospace engineering undergraduate with internship and project experience.

Completed several related courses, including a small project.

Seeking opportunities to not only apply but also hone my skills.

# EDUCATION

## B.Tech. Aerospace Engineering CGPA – 8.75 / 10 2019 – 2023

Amrita School of Engineering,

Amrita Vishwa Vidyapeetham, Coimbatore, TN

* **Class 12** – 85.8% **[CBSE] 2019**

Institution: Sri Sri Ravishankar Vidhya Mandir

Subject: Physics, Chemistry, Mathematic and Biology

* **Class 10** – 76% **[ICSE]** **2017**

Institution: Ryan International School

# TECHNICAL INTERESTS

* + - Compressible Fluid Flow
    - Aerospace Propulsion

# PROJECTS

## Aerospace

## Duration/Period: August 2021 –November 2021, 4 Months

## Objective: To create a python program to generate simple airfoils using conformal mappings, polynomial equations, thin airfoil theory and 3D wings using VLM and LLT

## Tools: Python

## Propulsion

## Duration/Period: June 2022 –July 2022, 6 weeks

## Objective: Design propellers of single and mixed airfoils using various software. Then tested them for thrust in Ansys Fluent

## Tools: Qblade, Javaprop, XFOIL, Fusion 360, ICEM CFD, SolidWorks, Ansys Fluent

# INTERNSHIP

## Society for Space Education Research and Development (SSERD)

## Duration/Period: June 2021 – July 2021 (5 weeks)

## Objective: Case Study on Propulsion system dedicated to Single Stage to Orbit vehicles

## Outcome: Selecting the most appropriate propulsion system after rigorous study and comparison

## Aeronautical Development Establishment (ADE), Defence Research and Development Organisation (DRDO)

## Duration/Period: June 2022 – July 2022 (6 weeks)

## Objective: Propeller power effect study for a stand-alone propeller using CFD method

## Outcome: Designed various propellers using 3D design software and tested them using Ansys Fluent

# TECHNICAL SKILLS

* **Software**

Solid Works(Beginner) ,Ansys(Intermediate), Lotus suspension(Intermediate)

# ACHIEVEMENTS & HONORS

* **Society of Automotive Engineers (SAE) Baja**

Role**:** Designed vehicle suspension components using various design and analysis tools

Duration: November 2020 – May 2021 (7 months)

Location: Amrita Vishwa Vidyapeetham

# LANGUAGES

* + English – Full Professional proficiency
  + Tamil – Native proficiency

**HOBBIES**

* + Photography