Shrinivethika Balasubramanian

### MBA (HR and Marketing), Lovely Professional University (2021-2023)

An independent and self-motivated graduate with expertise in Human Resource Management. Reliable, knowledgeable and highly organized team player with excellent communication skills, team building & relationship management. Enthusiastic IT professional with 3 years of experience in Tata Consultancy Services. Seeking for full-time opportunities to improve my career in HR field, available immediately.

[shrini.bala1997@gmail.com](mailto:shrini.bala1997@gmail.com) +918903040813 Punjab, India linkedin.com/in/shrinivethika-balasubramanian

# WORK EXPERIENCE

## System Engineer

### Tata Consultancy Services

*08/2018 - 10/2021*, *Bangalore, India*

*Achievements/Tasks*

Worked in various facets of Software Development Life Cycle

Worked as a team member in projects that increased the revenue of the organization and our client

Excellent written and spoken Communication skills. Possess the ability to work both as a team member as well as Team lead/ Manager

## Undergraduate Researcher - Numerical Analysis of Ballistic impact on Thermosets and Thermoplastic composites

### Bachelor Thesis - Amrita Vishwa Vidyapeetham

*07/2018 - 04/2019*, *Coimbatore, India*

*Achievements/Tasks*

Simulation of material failure using **Abaqus-Explicit** with shell and solid element model on Carbon-PEEK composite

Collaborated in a team of 3 to perform a parametric study with ceramics as faceplate and different **thermosets and thermoplastics** as back plate in **Abaqus-Explicit, VUMAT**

Outpaced the previously existing ballistic material, created a new ballistic resistant material that stops the projectile

## Summer Intern

### Hindustan Aeronautics Limited (HAL)

*05/2018 - 06/2018*, *Bangalore, India*

*Achievements/Tasks*

Acquired an understanding of the structural tests carried out on the wings and fuselage frame of the LCA-Tejas fighter aircraft

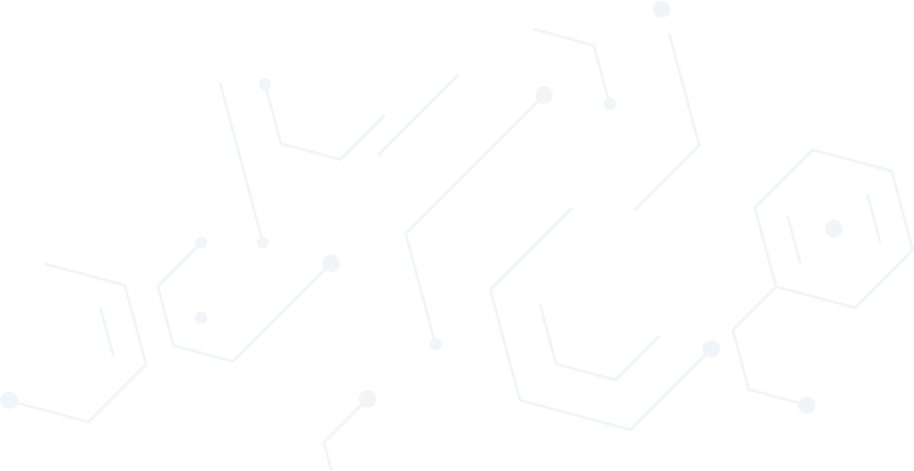
Gained practical experience on conducting quality tests on structural parts of the wing

# EDUCATION

**Master of Science in Mechanical Engineering (Advanced Composite Engineering and Sciences)** École Centrale de Nantes

*09/2019 - 09/2021*, *Nantes, France*

*Courses*



# TECHNICAL SKILLS

##### FEA

Abaqus-Explicit, Hypermesh, Radioss, LS-Dyna, Moldex 3D, GMSH

##### Programming and Design

C, Python, Matlab, AutoCAD, CatiaV5

##### Lab

DSC Thermal analysis, Infusion, LRI, RTM, Thermoforming

##### Office tools

Microsoft Excel/Word/Powerpoint, LaTEX

# SOFT SKILLS

Autonomy

Organized

Team player

Innovative

**PROJECTS**

#### Composite Poles for Smart Cities |École Centrale de Nantes (10/2020 - 01/2021)

Conceptualized the mechanical pre-design, selection of materials and manufacture of light poles in a team of 6 members

Negotiation of **sustainable/green fibres** alternatives and simulation of mechanical structure

#### Constituents and Process laboratory | GeM Laboratory - Halle Composite (09/2020 - 10/2020)

Manufacturing of composite parts using Infusion, LRI, Thermoforming

Material characterization of **thermosets and thermoplastics** are studied using various optimization techniques in **Matlab**

#### Design Studies | École Centrale de Nantes (02/2020 - 04/2020)

Created a simple and lightweight walker for the elderly using **CATIA V5** with honeycomb structures

Design of a 2D and 3D scissor lifting mechanism in **Matlab**

Study and resolution of the heat distribution rate under various Boundary conditions using python (09/2019 - 11/2019)

# CERTIFICATION

#### Crash Worthiness Analysis using Hypermesh and Radioss (09/2020 - Present)

*SKILL-LYNC, CHENNAI*

#### Aircraft Maintenance (02/2018 - 03/2018)

*NPTEL, IIT Kanpur*

Composite Constituents and Processes

Composite Structures

#### Goethe Zertifikat A1 - German (03/2019)

Composite Process Modelling Continuum Mechanics

# LANGUAGES

Computed Aided Mechanical

Design

Fluid Mechanics

French

*Professional Working Proficiency*

English

*Full Professional Proficiency*

## Bachelor of Technology in Aerospace Engineering (Bac+3)

### Amrita Vishwa Vidyapeetham

*07/2015 - 04/2019*, *Coimbatore, India*

*Courses*

Strength of Materials Aerodynamics, Propulsion

German

*Elementary Proficiency*

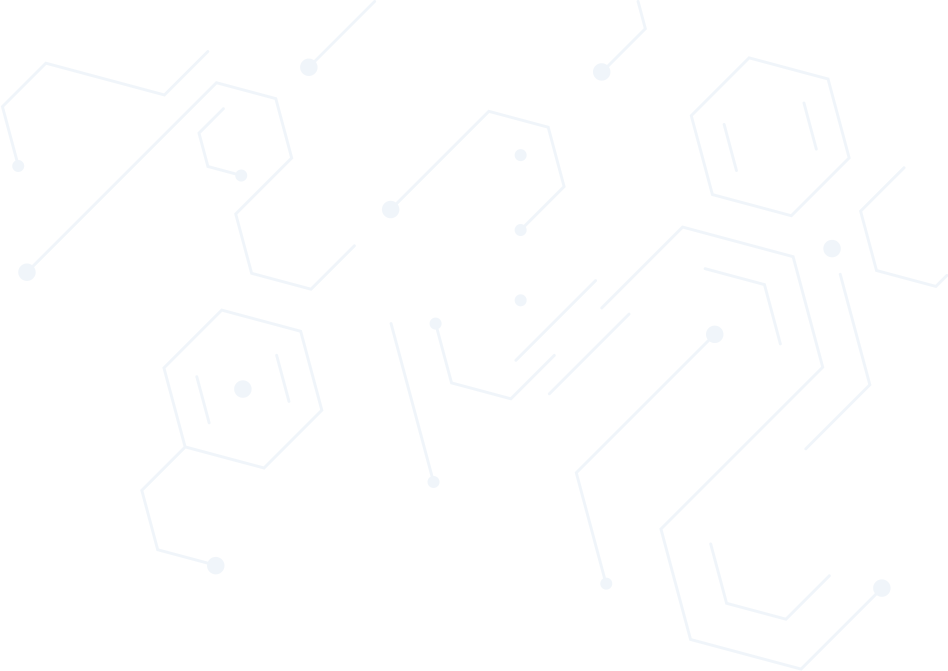
# INTERESTS

Badminton

Tamil

*Native or Bilingual Proficiency*

Fracture Mechanics FEA, CFD



Music Vegan, Waste Management