BABALESH KUMAR

📞 +91-9457754711 ✉ babaleshkumar97iitgl@gmail.com in babalesh-kumar-369887225 ⬡ Babaleshkumar

Education

Indian Institute of Technology (IIT), Guwahati, Assam   **2023**
Master of Technology in Aerodynamic and propulsion   *CGPA: 8.05*

Institute of engineering and Technology, Lucknow   **2019**
Bachelors of Technology in the branch of Mechanical engineering   *Percentage: 74.44*

Sarswati Inter College, jalesar Etah   **2013**
Higher Secondary School   *Percentage: 79.40*

Adarsh Inter College, jalesar Etah   **2011**
Secondary School   *Percentage: 68.33*

Technical Skills

Programming languages:C, Java*
Database Management: MySQL
CAD/CAM Tools: Solidworks
Numerical Computing Environment: Ansys
Operating system: Windows
Soft Skills: Mendeley, MS Visio, MS Word, PowerPoint, Excel, WebPlotDigitizer, Latex
Miscellaneous: Data Structure and Algorithms * Elementary proficiency

Experience

HCLTech   **Month Year – Month Year**
TechLead   *Chennai*
- Write about your work experience

CODSOFT   **Sep 2023 – Oct 2023**
Web development Trainee   *Work from Home*
- Developed Netflix Landing page clone with the help of HTML, CSS, Bootstrap, and jQuery
- Developed a personal Portfolio website using HTML, CSS, jQuery, and Bootstrap
- Developed a simple interface Calculator with the help of HTML, CSS, and JavaScript

Teaching Assistantship duty for Data acquisition Lab   **July 2023**
TA Faculty: Prof Vinayak Kulkarni (Department of Mechanical Engineering, IIT Guwahati)   *Guwahati*

Four-week Industrial training at UPSRTC Lucknow   **July 2018**
Trainee   *Lucknow*
- Developed an awareness of the industrial approach to problem-solving based on a broad understanding of the organization's process and mode of operation and understood the effort behind the maintenance and servicing of each vehicle in the workshop.

Projects

Developed Netflix clone | *Git*   **Sep 2023**
- Developed Netflix clone with the help of HTML, CSS, Bootstrap, and jQuery

Underwater Blast Studies Using Shock Tube | **June 2023**
- Mentor: Dr. Vinayak Kulkarni, Professor, Dept. of Mechanical Engineering, IIT Guwahati
- Find out the effects of blasting of a detonator on the splash height and splash type.

Engineering Computing Lab Project | *Git*   **November 2021**
- Developed a C code of the Gauss elimination method to solve the system of linear equation.
- Developed C code for solving higher order initial value problem by Runge Kutta method of fourth order
- Developed C codes for solving single order and system of single order initial value problem by Runge Kutta method of fourth order.

Steady State Temperature Distribution On a 2D Rectangular Plate | *Git*   **November 2021**
- Dr. Anoop Kumar Dass, Professor, Dept. of Mechanical Engineering, IIT Guwahati.
- C Codes were developed to compare the results of three different approaches (Point Gauss-Seidel, Time-Marching and PSOR).

Problem optimization using Genetic Algorithm | *Git*   **Apr 2021**

- Developed a C code to find the minimum value of a mathematical function using Binary Coded genetic algorithm with roulette wheel reproduction scheme, two-point crossover, and bit-wise mutation and plot the result.

Enhance discharging performance of graphene-based Phase change material. | **May 2019**

- Dr. Arun Kumar Tiwari, Professor, Dept. of Mechanical Engineering, IET Lucknow.
- The dispersion of Nano-particles with PCM (Phase change material) 1wt percent led to a 19.89 percent increase in thermal conductivity and a 7.79 percent increase in heat flow rate.

Pubications

Underwater Blast Studies Using Shock Tube | *Publication link*   **Month Year**

- Write about your paper.
- Write about your paper.

Certifications

Certificate 1: Won football final match in B.Tech. 3rd year: Shauryotsava 2018
Certificate 2: Object Oriented Programming in Java | *Coursera*
Certificate 3: Java Programming: Solving Problems with Software | *Coursera*
Certificate 4: Data Structures and Algorithms: Deep Dive Using Java | *Udemy*