Rajesh

Roll No.:214103318
M.Tech - Mechanical Engineering
Specialization in Fluid and Thermal
Indian Institute Of Technology, Guwahati

+91-8290821476
rdeora@student.nitw.ac.in
rajdeoranitw@gmail.com
Github
linkedin.com/in/rajesh-deora-54a017159

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
M.Tech.	Indian Institute of Technology, Guwahati	7.79	2021-2023
B.Tech.	National Institute of Technology, Warangal	7.77	2016-2020
Senior Secondary	RBSE Board	82.00%	2014
Secondary	RBSE Board	68.67%	2012

PROJECTS

- **Magnetically actuated droplet coalescence** *Aug. 2022 - Jul. 2023*
  Prof. Pranab Kumar Mondal, Dept. of Mechanical Engineering, IIT Guwahati
  – Coalescence of non-magnetic and magnetic droplets under the modulation of non-uniform magnetic field
  – Experimental quantification of coalescence phenomenon employing image processing in Matlab

- **Development of personalized portfolio** *Aug. 2022*
  Self Project Github
  – Created personalized portfolio with **HTML**, **CSS**, **JavaScript** and **ReactJs**
  – Attached **EmailJs** service to receive messages from visitors

- **Food Recipe Web application** *Jul. 2022*
  Self Project Github
  – Developed of search-based food recipe application using **HTML**, **CSS** and **JavaScript**
  – Recipes are fetched from **API**
  – Created a collection of favourite recipes

- **Problem optimization using genetic algorithm (GA)** *May 2022*
  Self Project Github
  – Developed 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

- **Development of Artificial Neural Network for prediction of experimental data** *Apr. 2022*
  Self Project Github
  – A generalized Python code was written based on Artificial Neural Network(ANN) which trains the model using existing experimental data and is used for predicting the further outcomes

EXPERIENCE

- **Solid Edge Lab - IIT Guwahati** *Aug 2022 - Mar. 2023*
  Prof. Shrikrishna Nandkishor Joshi, Dept. of Mechanical Engineering, IIT Guwahati
  – Teaching assistant for solid edge lab
  – Held solid edge lab and helped in understanding solid edge design software

TECHNICAL SKILLS

- **Programming**: C/C++, Python*
- **Web Development**: HTML, CSS, JavaScript, ReactJs
- **Data Management**: MySQL, MongoDB
- **Cs Fundamentals**: Operating Systems, Database Management Systems
- **Miscellaneous**: LaTex*, MS office*
- **Operating Systems**: Windows, Linux* ** Elementary proficiency*

KEY COURSES TAKEN

- Data Structures & Algorithms*
- Web Development*
- Crash Course on Python*
- Numerical Analysis Lab
- Soft Computing in Engineering
- Engineering Computing Lab *(* Online Courses)*

POSITIONS OF RESPONSIBILITY

- **Team Member**, Sponsership team at cultural fest springspree-2018, NIT Warangal *Apr. 2018*

Achievements

- **Hacker Cup**, participation organised by META — *Aug. 2022*
- **Member**, of team Mechaholics(ATV quad bike design challenge) FMAE India, NIT Warangal — *2018 - 2019*

Extracurriculars

- **2nd prize**, in cricket, MEA Sports week, NIT Warangal — *May 2019*
- **Member**, of organizing team of FUTURE HOUSE in techfest technozion, NIT Warangal — *2018*
- **2nd prize**, in contraption, MEA Sports week, NIT Warangal — *2018*

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