

# KUMARESH DEY

## Contact

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Website:

[kumareshdey.github.io/mywebsite](http://kumareshdey.github.io/mywebsite)

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## Academics

Jadavpur University (2020-22)

M. E. Production Management

SGPA – 7.71

Jalpaiguri Government

Engineering College (2015-19)

B. Tech. Mechanical engineering

DGPA- 7.44

Arambagh High School

Higher Secondary (2015)

Score- 91.6%

Secondary (2013)

Score- 89%

## Skills

- C, C++
- Data science
- Python (Numpy, Pandas, Sklearn)
- Machine Learning (Supervised and Unsupervised)
- SQL
- Internet of things (Basic)

## Links

Leetcode: [leetcode.com/hozogot](https://leetcode.com/hozogot)

Github: [github.com/kumareshdey](https://github.com/kumareshdey)

Codechef:

[codechef.com/users/kumareshdey](https://www.codechef.com/users/kumareshdey)

## Internships and Part times

**Subject Matter Expert (Mechanical engineering)-  
chegg.com**(Feb 2020 - Present) – Working as a mechanical subject matter expert and solving questions asked by UK/US students.

**Research Intern – BIT Mesra** (Feb 2018 – Aug2018) - Worked as a research intern under Dr. Om Prakash on '**Solar air heater**'.

**Research Intern - Jalpaiguri Government Engineering College (Jalpaiguri)** (Jun 2017 - Dec 2017)Completed conference paper named "**Optimum Inventory Cost- an EOQ Model "** and presented on international conference of **AFOR 2017**

**Marketing - Schoolmitra.com (Virtual)** (May 2017 - Jun 2017) – Created a database of all schools of my area

## Projects

**Prediction of material removal rate of Electro discharge machining using machine learning algorithms** (Aug 2021-Sep2021) Deployed a prediction model with **0.93 R<sup>2</sup>** value on watson studio-Jupyter notebook platform using python, numpy, pandas, scikit-learn,seaborn and regression models

github: [github.com/kumareshdey/Prediction-of-MRR-of-an-EDM](https://github.com/kumareshdey/Prediction-of-MRR-of-an-EDM)

**Double Pass Solar air heater** (Feb -August 2018)- Designed and practically constructed a fully functional double pass solar air heater and analysed exergic and thermal efficiencies in different modes.

**Smart Plug (internet controlled plug)** (Feb 2017 - Feb 2017) – Developed a plug that can be controlled from any place in the world through internet.Did the connection of module(ESP8266 based) with plug and 220V electricity with the help of relay module, web-page development and programming for switching in the backend Link: [github.com/kumareshdey/Smart-Plug](https://github.com/kumareshdey/Smart-Plug)

**Solar Stirling Generator**(Feb 2017)–Designed an efficient beta stirling engine which was powered by solar energy using convex lens. The setup can be connected to a generator to produce electricity.

**Personal Website** : Made my personal website using HTML and CSS Link: [github.com/kumareshdey/mywebsite](https://github.com/kumareshdey/mywebsite)

## Publications and Achievements

- Presented paper named "**Optimum Inventory Cost- an EOQ Model "** on international conference of **AFOR 2017**
- Presented paper named "**Environmental Effects Of Geothermal Power Plant – A Comprehensive Review"** on national conference **NCRAME 2019**
- Secured 3rd and 2nd position in an autonomous robotics event organised by Jalpaiguri Government Engineering College conducted SRISTI15 and SRISTI2016 respectively.

## Position of responsibilities

- International Director of Jalpaiguri Govt. Engg. College's Rotaract Club (2018-19)
- Event coordinator of annual technical fest SRISTI2017
- Core team member of Center For Innovation club