KUMARESH DEY

Contact

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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

Github: github.com/kumareshdey

Codechef: 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^2** 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

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

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

Publications

- Published paper named "**Exergy and energy analysis of sensible heat storage based double pass hybrid solar air heater**" doi: 10.1016/j.seta.2021.101714
- 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**

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