ABHILASHA JAIN

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Goal:

To discover sustainable solutions to rather unapproachable problems through applied research

Experience:

LIDO Learning | Tutor
2019 to 2020
Taught Mathematics & Science to high school students on the online platform provided by the company.

WeCan Educational Organization | Project Engineer (Content Creation and Instructor)
2016 to 2019
Led the content creation for the organization with high quality material for various engineering courses.
Successully conducted the technical training at numerous venues in my capacity as an IEEE approved instructor.

Acuradyne Medical Systems, SINE IIT-Bombay | Research Intern (Biomedical Engineering)
2018 to 2019
Researched the numerous aspects of cardiovascular disease extensively and made high quality scientific reports and presentations
Undertook signal processing and hardware development for a smart blood oxygen monitor.

MmM Ltd., SINE IIT-Bombay | Research Intern (Software Development and Data Science)
2018 to 2019
Analyzed and implemented numerous machine learning models in accordance with their relevance.
Researched a mathematical model for the human heart to assist pulse based diagnostic efforts

GNRC Hospitals, Guwahati | Intern (Biomedical Engineering)
2018 to 2018
Assisted the executive engineer in streamlining the administrative aspect of the department

Social Service:

UPKAR Classes, Guwahati, Assam, India | Co-Founder and Director: 2012 to Present
Conducting value based education for the masses.
Performing outreach for numerous socially relevant causes through education and spirituality.

Education:

DY Patil University| B.Tech. Biomedical Engineering | GPA 3.3
Thesis: Pulse Diagnosis Mathematical Model
2015 to 2019

Tools:

Python, C, MATLAB, Octave, Simulink, C++, HTML, CSS, BootStrap, PHP, MySQL, JavaScript, jQuery Embedded Systems, IoT, Arduino, ARM Microcontroller, Raspberry Pi, Processing, Machine Learning, NumPy, Pandas, Matplotlib, Scikit-learn, Keras, MS Office, Pycharm, Wordpress, Wix, Mobirise, Ecllipse, SquareSpace, Shopify

Co-curricular Activities:

Analytics, Combinatorics, Statistical Modeling, Scientific Writing, Mind mapping, Block Chain, Event Management, Android App Development, Web Designing, Digital Marketing, Sketching, Dancing, Singing, Chess

Featured Projects:

- Pulse Diagnosis Math Model with ML:
An effort to mathematically model the behavior of the human pulse using ML approaches

- Deep Learning for Diabetic Retinopathy:
A basic DNN classifier to identify retinopathic situations from retina scans.

Certifications:

- Pre- Calculus: Sets & Function | Udacity
- Complete Calculus Mathematics from Beginner to Advanced | Udemy
- Analysis of Algorithms | Princeton Unversity | Coursera
- Analytic Combinatorics | Princeton University | Coursera
- Machine Learning | Georgia Tech | Udacity

Achievements:

- Subject Excellency Award in 9th & 10th grade
- Gold Medal in International Mathematics Olympiad in grade 8, 9 & 10.