

# Debajyoti Dasgupta

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## EDUCATION

### INDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

COMPUTER SCIENCE AND ENGINEERING  
B.TECH+M.TECH  
July 2018 - Present | India  
Cum. GPA: 9.74 / 10.0

### APEEJAY SCHOOL, NERUL

Grad. May 2018 | Mumbai, India  
SCHOOL TOPPER | AISSCE 12TH BOARD  
Percentage : 97.6 %

### APEEJAY SCHOOL, NERUL

Grad. May 2016 | Mumbai, India  
SCHOOL TOPPER | CBSE 10TH BOARD  
Cum. GPA: 10.0 / 10.0

## COURSEWORK

### UNDERGRADUATE

- Machine Learning • Compilers
- Computer Organisation and Architecture
- Algorithms Designs and Analysis
- Programming And Data Structures
- Formal Language and Automata theory
- Signals and Networks • Discrete Structures
- Software Engineering • Switching Circuits
- Probability and Statistics

## SKILLS

### PROGRAMMING

Over 5000 lines:

C • C++ • Python • Javascript • Markdown  
NodeJs • MongoDB • Express • flex • bison  
LaTeX • MySQL • Java • JSP • OOP • Verilog  
Mongoose • Keras • Tensorflow • MIPS  
Wordpress • NoSql • Elementor • R

Over 1000 lines:

React • React Native • CSS • HTML • Redux  
Kotlin • Flask • Django • Bootstrap • SASS

Other Skills

Allgorithms • Data Structures • GIT • Windows  
Github • Shell • Numpy • Matplotlib • Linux  
Seaborn • AWS EC2 • Google Colab • RestAPI  
Java • PHP • Number Theory • Problem Solving  
Android • Azure Services • LightFM

## RESEARCH

### SMART GRID SCHEDULING USING RL | UNDERGRADUATE RESEARCHER

January 2021 – Present | IIT Kharagpur, IN  
Working with **Center of AI** to find efficient reinforcement learning based approach for managing energy generation and scheduling appliances.

## EXPERIENCE

### KALPKRITI | SOFTWARE ENGINEERING INTERN

July 2020 - September 2020 | Mumbai, IN

- Building AI based Recommendation system for New Feeds and using Google Analytics to provide actionable information for business.
- Building efficient Database and APIs to integrate with the database

### CRYOGENIC ENGINEERING CENTRE | ML RESEARCH INTERN

April 2020 – Present | IIT Kharagpur, IN

- ML Engineer - Build a Deep Learning based model for Digital Twin of the Cryogenic Energy Storage System integrated with a Matlab simulator.

### PREPBYTES | PROBLEM SETTER INTERN

December 2020 – Present | Mumbai, IN

- Build problems which test algorithmic and data structure knowledge from varied domains like dynamic programming and greedy approaches.

## POSITION OF RESPONSIBILITIES

### KHARAGPUR OPEN SOURCE SOCIETY | EXECUTIVE HEAD

January 2019 – Present | IIT Kharagpur, IN

- Conducted workshop for Open Source Awareness and organised the KWoC competition on National level (Open Source Contribution Event)

### NATIONAL SERVICE SCHEME | TEAM LEADER

June 2018 – June 2020 | IIT Kharagpur, IN

- Distribute Food and clothing to Poor Families.
- Teaching Maths and Technology to students from villages

## PROJECTS

### PLAN MY TRIP | APPLICATION, GITHUB

January 2020 – April 2020 | IIT Kharagpur, IN

- Open Source Java (JSP) based web app using MySQL database.
- Guides tourist in making Good choices for vacation tours.

### DISASTER-MANAGEMENT | WEB APP, AZURE

October 2019 – November 2019 | IIT Kharagpur, IN

- NodeJS Base application using Mongo DB and HTML/CSS frontend
- Library of resources where a person will find most of the resources and knowledge required to stay safe during Natural Calamities.

### CODE GENERATOR | APPLICATION, GITHUB

December 2018 | IIT Kharagpur, IN

- Python Script to generate C/C++ code from the Pseudo Code.
- helps in cross language communication among developers.

## ACHIEVEMENTS

2020	363/9356	Google Kick Start Round B 2020
2019	33/55654	TCS Codevita Round 2
2019	3 <sup>rd</sup> /100	Map My India Hackathon
2019	4 <sup>th</sup> /100	Microsoft CodeFunDo Hackathon
2019	33 <sup>rd</sup> /400	Code Gladiator <b>Finals</b> (Professionals)
2019	National	Smart India Hackathon National Finalist
2018	National	Indian National Physics Olympiad Finalist (Top 1%)
2017	National	Indian National Mathematics Olympiad Finalist (Top 1%)
2017	National	IIT Bombay Mathematics Olympiad (AIR 7)
2016	National	Kishore Vaigyanik Protsahan Yojana Scholar (AIR 245)