SUJAL MODANWAL

Indian Institute of Engineering Science And Technology, Shibpur

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EXPERIENCE

Website
The INTELLECTS

📅 Aug 2020 - Now   📍 Work from home

- **Co-owner** of the website cum resource, currently having more than **600** involvements and positive feedback
- Shared responsibility of the complete front end and back end, implementing features like **online library**, **markdown** supported **blogs** and innovative page to enhance **connections**
- Tech used: **HTML, CSS, JavaScript, Node.js, SASS, MongoDB**
- Website link:- **The Intellects**, Source code: **SuMRoG**

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Open Source Contribution
Bcrypt

📅 Aug 2021   📍 Work from home

- Worked on a repository currently having more than **6000 stars**, asking a feature for **encryption** of password with respect to the time allotted, not number of rounds for generating salt
- Understanding the relation between number of rounds and time taken for encryption, developed an **algorithm** to provide the **best encryption** of password with all versions of bcrypt
- PR link: **node.bcrypt.js** and stack used are **C++ and JavaScript**

PROJECTS

Hands
- A group project designed in **JavaScript, Node.js and React.js**, where I gave the core idea and worked on front end
- Its an interface between the help seekers, and part time job finders introducing concept of **task based employment** Source Code: **GitHub**   Prototype: **Hands**

Text Summarization
- An algorithm written in **Python** appertaining **Machine Learning** to summarize a huge document file into some lines of text, technically known as **Extractive Summarization of text** Source Code: **GitHub**

EDUCATION

- ### B.Tech. (CST) - 8.91 CGPA (upto 6th sem)
  Indian Institute of Engineering Science & Technology, Shibpur

  📅 July 2019 – Now   📍 Howrah, West Bengal

- ### Senior Secondary - 92.00% (CBSE Board)
  Children Public Sr. Sec. School

  📅 2019   📍 Fatehpur, Uttar Pradesh

ACHIEVEMENTS

- Upcoming FTE at **Deutsche Bank**
- Selected among top **10 finalists** out of total **34,000** participants in **Uber Hacktag 2.0**
- Achieved rank of **98** out of 4054 participants in **ICPC Amritapuri Mock Round**
- **ICPC 2020 Gwalior-Pune** Regionalist
- **CodeChef** : Max rating - 2073 **(5 star)** **Codeforces** : Max rating - 1577 **(Specialist)** solved more than **1800** problems combined
- Our team scored **2,417,816** points, securing AIR 215 in **Google Hash Code 2022**
- Secured global rank of **643** out of total 6900 participants in **Google Kickstart** Round E, 2021
- Qualified to second round of **CodeChef Snackdown** 2021.
- **District topper** in mathematics in senior secondary, by scoring **98 out of 100**

TECHNICAL SKILLS

- **FIELDS** : Competitive Programming, Web Development and Open Source
- **LANGUAGES :**
  Experienced : C/C++,
  Familiar : Python, JavaScript
- **TOOLS AND FRAMEWORK** : HTML, CSS, React, Node.js, Express.js, MongoDB, SQL
- **OS :** Windows, GNU/Linux
- **CONCEPTS :** Data Structures and Algorithms, OOPs, OS, DBMS

POSITION OF RESPONSIBILITY

- **President** of CodeChef College Chapter of IIEST, Shibpur
- **Core member** of **CodeIIEST**, coding club of IIEST, Shibpur

EXTRA-CURRICULAR ACTIVITIES

- Set **problems**, take **sessions** and conduct **contests** for juniors
- Actively participate in the field of competitive programming and sports