MOHAMMAD AMANULLAH

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EDUCATION

Indian Institute of Technology, Madras **2022 – Present**
Bachelor of Science in Programming and Data science *CGPA: 8.0*

National Institute of Technology, Agartala **2022 – Presnt**
Bachelor of Technology in Chemical Engineering *CGPA: 8.23*

Primus public School, Muzaffarpur **2020– 2021**
Senior Secondary (XII) *Percentage: 85.2*

Sri Chaitanya Vidyaniketan,Vishakhapatnam **2018 – 2019**
Secondary (X) *Percentage: 92.2*

PROJECTS

INVESTMENT CALCULATOR ⬏

- Engineered a dynamic investment calculator web application using React, enabling users to effortlessly compute investment returns.
- Designed an intuitive user interface that seamlessly captures user input for critical financial parameters, including current savings, annual contributions, interest rates, and investment duration.
- Implemented precise investment return calculations allowing users to accurately forecast their financial trajectories.
- Tools and Technologies: **Reactjs, Javascript, HTML, CSS, Nodejs.**

SOVER ⬏

- Designed and engineered "SOVER," an automated solar panel cleaning system, effectively addressing the problem of dust buildup and resulting in a notable **15% improvement in power output efficiency.**
- Conceived an innovative **two-step cleaning methodology** to address and enhance the cleaning of various structures, applying data-driven algorithms to optimize the debris removal process.
- Leveraged Arduino microController technology to create an intelligent and automated cleaning mechanism, enhancing the longevity and performance of solar panels.
- Tools and Technologies: **Arduino, Breadboard, LDR and Dust sensors, Arduino Programming.**

ACHIEVEMENTS

- **LeetCode: Max Rating:1645** : mamanullah7
- **CodeChef: 3** ⭐ **Max Rating:1698** : mamanullah47
- Achieved the **top 20 position** in the **2023-24 e-Yantra Robotics Competition** while actively contributing to the advancement of the **Luminosity Drone** theme
- Achieved the **Runner-Up** position in the robotics competition hosted at **National Institute Of Technology Agartala**

TECHNICAL SKILLS

- **Programming Languages**: C, C++, Python, Data Structures and Algorithms
- **Web Development**: HTML, CSS, React, Javascript.
- **Machine learning**: OpenCV, Selenium, Numpy, Pandas, Matplotlib, Scikit Learn, TensorFlow
- **Dev Tools**: Git, Github, VS Code, Replit

EXTRACURRICULAR

ANARC - Technical Lead

- Guided and directed the robotic student club, offering visionary leadership to a dedicated team of members.
- Utilized Real-World Solutions to resolve challenges and tackle complex problems encountered during project development.
- Fostered a collaborative and inclusive environment within the club, encouraging knowledge sharing and skill development among members.

WeCan - General Secretary

- Demonstrated exceptional leadership skills by overseeing all aspects of WeCan Club's operations, motivating volunteers, and driving impactful community outreach initiatives.
- Design and executed effective education and mentorship programs, positevely impacting the lives of underprivileged children and contributing to their academic and personal growth.