ANUVAB SEN | 2020ETB047

ELECTRONICS AND TELECOMMUNICATION ENGINEERING (B.Tech 4Y)

ETC SOPHOMORE in ELECTRONICS COMMUNICATION ENGG

EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2020	B.TECH Degree 4Y	IIEST Shibpur	9.19 / 10
2018	Indian Certificate of Secondary Education (ICSE)	St James School, Kolkata	92.4%
2020	Indian School Certificate Examination (ISC)	St James School, Kolkata	92%

INTERNSHIPS/EXPERIENCE

Summer Research Internship | Indian Statistical Institute, India [July 2021- September 2021]

- Worked on and laid the foundation of the Project titled "Mapping areas using Computer Vision Algorithms and Applications"
- Incorporated pose estimation model in drones using MPII dataset using Computer Vision
- Learnt generative adversarial networks (GAN) to implement them in Image Segmentation models

Winter Research Internship | Jadavpur University, India [October 2021- Present]

- Predictive Analytics and Medical Image Segmentation used in Machine-assisted Diagnosis
- Practical application of Mask-R Convolutional Neural Network to increase efficiency of detection of tumors

Girlscript Winter of Contributing [Contributor]: Contributed to the domains of ML, DSA, and Frontend Development.

COMPETITION/CONFERENCE/ORGANISATIONS

Google Kickstart: Ranked **4148th** among **6,950** participants in Round E, 2021 and **4165th** among **9,355** participants in Round C, 2021

American Society of Mechanical Engineers [ASME]: Elected student member of ASME for the year 2020-2021

PROJECTS

Unbeatable Tic Tac Toe game made by Python using Open-Cv Image Processing 2021 [July 2021-September 2021]

- **Guide**: Prof. Subhamoy Moitra, Prof. Rajat De | B.Tech Project | Applied Statistics Department, ISI Kolkata
- Developed a Convolutional Neural Network to detect for each cell in the grid whether there's an X, O or nothing.
- Demonstrated that and achieved an average efficiency score of 0.9891 ± 0.009 out of 1 with a limited dataset of 170 images.

Quantum Computing Project | Prof. Subhamoy Moitra | Applied Statistics Department, ISI Kolkata [July 2021-Sept 2021]

- Implemented Quantum Circuits using IBM Q Experience (OPENQASM 2.0) and Quiskit (Quantum Simulation Library in Python).

COURSEWORK INFORMATION

Computer Science Engineering: Algorithms * | Computer Architecture and Operating System | Computer Networks | Image Processing | Computer Vision | Programming and Data Structures*

Electronics and Communication: Digital Electronics* | Analog Electronics* | Network Theory | Microprocessors* | Control System Engineering* | Signals and Systems* `*Includes Laboratory along with Theory`

SKILLS AND EXPERTISE

Programming Languages: Fluent: C, C++, Python, JavaScript | Familiar: Sass, MIPS Assembly

Tools/Libraries: React, Git, Bash, HTML, CSS, NumPy, Matplotlib, MATLAB

AWARDS AND ACHIEVEMENTS

Qualified for **National Standard Examination in Chemistry [NSEC]** during the year 2019-2020.

Awarded the **Scientist Incentive Plan i.e. KVPY Fellowship Award 2018** by Indian Institute of Science, Bangalore

EXTRACURRICULAR ACTIVITIES

A National Tennis Player having played various National Tennis Tournaments organized by the **AITA** all around India.
Student Mentor under Vivekananda Youth Circle, IIEST Shibpur for a group of 5 Students **[August 2021-Present]** ! self-declaration by the student