

Sayak Banerjee

Junior ECE Student, VIT Vellore

✉ sayakbanerjee022@gmail.com

☎ 8420667131

📍 Vellore, Vellore Institute of Technology, India

EDUCATION

B.Tech in Electronics and Communication

Vellore Institute of Technology, Vellore

07/2018 - present

CGPA - 9.41; Dept. Rank - 08

Courses

- Engineering Mathematics
- Digital Logic and Design
- Operating Systems
- Database Management Systems
- Microcontroller (8051)
- Semiconductor Physics
- VLSI System Design
- Data Structures and Algos
- Machine Learning (Audit)

PERSONAL PROJECTS

Intelligent Hearing System for different scenarios ex, in a classroom, outdoors at a railway or bus station (11/2020 - present)

Music Emotion Recognition using Python (Project under the guidance of Dr Prakasam P.) (02/2020 - 06/2020)

Chat Bot - Using End to End Memory Networks (A special form of RNN based on the Research Paper End-to-End Memory Networks) on the bAbI dataset released by Facebook Research (04/2020 - 06/2020)

MediX - A complete web based medical portal to monitor the vitals of a person. An integrated platform with a chatbot and a separate portal for the doctors to monitor the patients remotely. (Highly appreciated by the judges for the Deep Learning approach and UI Implementation)

- Demoed at Hack Harvard, 2019

eXcape - A computer vision based gestured controlled gaming tool. (03/2019 - 03/2019)

EXPERIENCE

Telecommunication Engineering Intern POWERGRID Corporation of India Limited

11/2020 - 01/2021

Kolkata

Achievements/Tasks

- I am working as a telecommunications Engineering Intern particularly in the domain of optical communication and DWDM technologies

Data Science Intern Society of AI

07/2020 - 09/2020

India

Society of AI is a Start-up Company based in Dehradun, India and I am currently working there as a Data Science Intern

Achievements/Tasks

- Implementation of Deep Learning, Machine Learning and Data Analytics in different projects

SKILLS

Machine Learning

Neural Networks

Python

C++

Tensorflow

Computer Vision

Signal Processing

Natural Language Processing

Javascript

Data Structures and Algorithms

Communication

Self Motivation

ACHIEVEMENTS

IITJEE Rank - 11137, WBJEE Rank - 951, VITEEE Rank - 8307

Selected for HackHarvard 2019, Harvard University

HackHarvard 2019 was a 36 hours hackathon organised by Harvard University, Boston, Massachusetts, USA. Around 400 developers around the globe were selected based on technical questions and CVs uploaded and they were invited to attend the event.

VIT Hack 2020, Top 3

Our Project Medic4All - a complete web-based medical analysis tool which can detect abnormalities in your ECG, Respiratory Sound, Blood Pressure levels and give further insights on the ailment. The project made it to the **top 100 start-up ideas in Binance Build of Bharat Hackathon**.

Departmental Rank in ECE - 08

PUBLICATIONS

A Real Time Arrhythmia Detecting Wearable using a Novel Deep Learning Model - IEEE Computer Society accepted; presented at 2020 International Conference on Interdisciplinary Cyber Physical Systems; at IIT Madras (08/2020 - 11/2020)

Applications of Deep Learning in Medical Engineering - Accepted by Bentham Science (10/2020 - 12/2020)

LANGUAGES

English

Professional Working Proficiency

Bengali

Native or Bilingual Proficiency

Hindi

Professional Working Proficiency

INTERESTS

Machine Learning and AI technologies

Sports - Cricket and Football

IOT and Electronics

Music