

Shreya Das

Pre-Final Year (B.Tech) | Electrical Engineering | IIT Jodhpur
das.6@iitj.ac.in | (+91) 9136085225

EDUCATION

IIT JODHPUR

B.TECH IN ELECTRICAL ENGINEERING
Expected 2022 | Jodhpur, India
CGPA: 7.36/10.00

D.A.V PUBLIC SCHOOL, NERUL

HIGHER SECONDARY EDUCATION
CBSE | March 2017
Percentage: 94.4

D.A.V PUBLIC SCHOOL, NERUL

SECONDARY EDUCATION
CBSE | March 2015
CGPA: 10/10

COURSEWORK

UNDERGRADUATE

Linear Algebra and Calculus
Complex Analysis and Differential Equations
Probability, Statistics and Random Processes
Computer Programming
Digital Logic and Design
Signals and Systems
Basic Electronics Engineering
Electromagnetic Theory
Electromagnetism and Optics
Circuit Theory
Physics of Semiconductor Devices
Power System

SKILLS

LANGUAGES

Proficient:

• C • C++ • Python

Familiar:

• Javascript • MATLAB • Solidity

WEB DEVELOPMENT

• ReactJS • MongoDB • ExpressJS
• NodeJS • Redux • React-Native

DATA SCIENCE

• CNN • Machine Learning • OpenCV
• PyTorch • Tensorflow • Keras

LINKS

Github:// [shreya0505](#)
LinkedIn:// [sdas0505](#)
Codechef:// [codelyf1999](#)
Codeforces:// [lola_0505](#)
Hackerrank:// [codelyf0505](#)

PROJECTS

AUDIO SOURCE SEPARATION | B.TECH PROJECT

Jan 2020 - May 2020 | Mentor: Dr. Rajendra Nagar
Colab Notebook | Referred research paper: Wave U-Net

- Separating multi-stem song into **four constituent stems** namely vocals, drums, bass and other by implementing **modified U-Net architecture of convolutional neural networks** in **pytorch**
- The effectiveness of stem separation was measured using **SDR metrics**:
Vocals:3.50 Drums:3.97 Bass:3.24 Other:2.21

TECHMATE | INITIATIVE / GROUP PROJECT

April 2020 - June 2020 | Web Development | Github | Website

- Platform cum forum for female developers to collaborate on projects, impart and/or receive mentor-ship and volunteer (**200+ registrations**)
- Built using **MERN stack**, **Redux state management**, **JWT** and **Facebook API** for authentication.

TODOMOR TASK MANAGER | HACKATHON PROJECT

May 2020 - Jun 2020 | Web Development | Github

- A user-friendly to-do list and team project manager for seamless collaboration built using **MERN stack** and authentication using **Google API** and **JWT** for StackHack 1.0 hackerearth hackathon

VOTECHAIN | MICROSOFT CODEFUNDO++ PROJECT

May 2020 - Aug 2020 | Blockchain based Web Application | Github

- A secure tamper-proof decentralized e-voting web application using **solidity** smart contracts, **Metamask** wallet, **ReactJS** and **Azure Blockchain** to tackle problems faced by traditional elections

IMAGE INPAINTING | COURSE PROJECT

Sept 2019 - Nov 2019 | Signals and Systems | Github | Report
Mentor: Dr. Rajlaxmi Chouhan

- The research paper was implemented using **convolution with an adaptive kernel** with enhanced edge preservation to reconstruct damaged images

ACHIEVEMENTS

- Achieved highest rating of **1832** (4 star) on Codechef
- Secured **3rd position** in 36 hour hackathon organised during Prometeo, annual Tech-fest of IITJ | Github
- Placed among **top 0.6%** of 1.05 million JEE 2018 aspirants

POSITIONS OF RESPONSIBILITY

- **Student Representative** | SERS, IITJ | Aug 2020 - May 2020
- **Vice Captain** | Literature Club, IITJ | Aug 2020 - May 2020

EXTRACURRICULAR

- Represented IITJ in Inter IIT sports meet, 2018-19 as **first women's tennis team** from IITJ
- Creative Writing such as poetry writing, short stories and fan fiction | **Wordpress Blog**