Jibitesh Chakraborty

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LinkedIn Profile – https://www.linkedin.com/in/jibitesh-chakraborty-600ba21b6

GitHub Profile - **https://github.com/Jibitesh-Chakraborty2811**

Projects

- **Gym Registration Web Application | React.js, Node.js (Express) & MySQL**
  Built a gym registration web application using React.js for front-end, Node.js (Express) for server-side backend and MySQL as database.
- **Guitar Tutorial Video Streaming Web Application | React.js and Node.js (Express)**
  Built a guitar tutorial streaming web application using React.js for front-end and Node.js (Express) for back-end server side.
- **Course Customization Web Application | React.js and Express.js (Node.js)**
  Built a course customization web application using React.js for the front end and Express.js for the backend.
- **Portfolio Website**
  Built a portfolio website using HTML5, CSS3 and Bootstrap template. Link - https://cheery-dolphin-22fcfd.netlify.app/
- **Placement Data Analysis | Python and SQL**
  Performed an extensive data analysis on the placement data of a MBA college to find relations within the data and draw inferences. Plotted all possible relations in appropriate graphs for better visualization and understanding.
- **Image to Sketch Generation AI App | Python, Tensorflow, OpenCV and Streamlit**
  Built a Deep Convolutional Auto-encoder which takes an ordinary image as an input and generates a sketched image out of it. Deployed the model on a streamlit app for public use. Link - https://picture2sketch-jibitesh-chakraborty.streamlit.app/
- **Text to Image Generator | Python, Streamlit, Langchain and Huggingface**
  Built a prompt to image generator web app using StabilityAI's open source Huggingface stable diffusion model and Langchain and Streamlit in python.

Experience

- **Research Intern | Department of Computer Science and Engineering, Indian Institute of Technology, Kharagpur | Sep '23 – Oct'23**
  Analyzed crash instances in the city of Kolkata and identified crash hotspots and conditions, within the city. Used unsupervised learning techniques like clustering and Exploratory Data Analysis. Developed a Graph Convolutional Neural Network for identification of probable road intersections and their probability of being a crash hotspot.
- **Research Intern | Department of Computer Science and Engineering, Jadavpur University, Kolkata | Jun '23 – Jul '23**
  Built an AI powered Software, which takes an individual's EEG readings and segments the channel data and then predicts, if the patient suffers from Schizophrenia or not.
- **Software Development Intern | AiXChange | Jan '23 – Mar '23**
  Was responsible for building and maintaining the backend of the official website of the organization. Used python Flask and Firebase as the tech stacks. Also developed an automatic OMR Sheet marking system using OpenCV python.

Research Publication

- **Deep Learning-based Prediction of Cardiomegaly Disease from Thoracic X-ray Images using Convolutional Neural Networks Download Link -** https://ijsrem.com/download/deep-learning-based-prediction-of-cardiomegaly-disease-from-thoracic-x-ray-images-using-convolutional-neural-networks/

Education

- Computer Science and Engineering, B.Tech | Heritage Institute of Technology, Kolkata   SGPA : 8.64(3rd Year)
- XII(ISC) | Don Bosco School, Park Circus, Kolkata   Percentage – 89.75
- X(ICSE) | Don Bosco School, Park Circus, Kolkata   Percentage – 91.60

Skills

- **Front-end tools and frameworks** - React.js, HTML, CSS, Bootstrap, Javascript
- **Back-end tools and frameworks** – Node.js (Express.js), Java Spring Boot, Python Flask
- **Relational Databases** – Oracle SQL database, MySQL
- **Cloud Databases** – Firebase, MongoDB
- **AI application tools** – Langchain, OpenAI LLMs
- **Machine Learning and Deep Learning tools** – Python, Tensorflow, Keras, Scikit-learn
- **Model Deployment** – Streamlit
- **Data Analytics tools** – Python, Numpy, Pandas, Matplotlib, Seaborn, MS Excel, SQL
- **Natural Language Processing**
- **Object Oriented Programming Languages** – Java, C++, Python
- **Data Structures and Algorithms Languages** – Java, C