

Debabrata Bhakat

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EDUCATION

Indian Institute of Technology, Kharagpur CGPA: 8.84/10 <i>Integrated (B.Tech + M.Tech) in Mechanical Engineering, Minor in Computer Science</i>	Kharagpur, India Aug. 2019 – Present
Loyola High School, Jamshedpur <i>Grade XII - ISC</i>	Jamshedpur, India April. 2006 – Feb. 2019

SCHOLASTIC ACHIEVEMENTS

JEE AIR 4165 : Among the top 0.5% amongst 1.2 million students of my country

Department Change : Got a department change which is offered to 10 percent students from each department

TECHNICAL SKILLS

Programming Languages: Python | JavaScript | C/C++ | Java | HTML/CSS

Libraries / Frameworks: Tensorflow | Keras | Numpy | Pandas | React | MongoDB | Express | Node.js | Bootstrap

Visualization Libraries and Softwares: Matplotlib | Seaborn | Plotly

Deployment Platforms : Heroku | Github Pages | Linode

EXPERIENCE

Machine Learning Teaching Intern <i>ETMantra Learning Solutions</i>	May 2021 - June 2021 <i>Remote Internship</i>
<ul style="list-style-type: none">Made videos explaining the theory of many machine learning and deep learning conceptsCompiled some Jupyter notebooks and used various libraries like TensorFlow and Sklearn to see the practical use	

PROJECTS

Traffic Sign Classification <i>Deep Learning</i>	April 2021 - May 2021
<ul style="list-style-type: none">Developed a classifier model using 2-D CNN to classify images into 43 different traffic signsImplemented data augmentation using ImageDataGenerator to remove over-fitting and get more training dataGot an accuracy of 93% on the test set consisting of 12k images and 97% on the validation set	
A-Z Alphabet recognizer <i>Deep Learning</i>	March 2021 - April 2021
<ul style="list-style-type: none">Developed a model which can classify hand written alphabets where the input was in .csv formatImplemented under-sampling using NearMiss since there was huge data imbalance among different classes.The data set contained around 20k black and white images of 28x28 pixelsUsed 3 layer CNN and 2 Dense layer for the model and got an accuracy of 97% against the test set	
Forest Cover Type Prediction <i>Machine Learning, Classification</i>	Jan. 2021 - Feb 2021
<ul style="list-style-type: none">Developed to classify forest type cover based on 50+ features like slope, elevation, hillshade etc.Used various feature selection techniques like Information gain and Correlation matrixApplied different models like XGBClassifier and Random Forest and got an accuracy of around 73%	
Blog Website <i>MongoDB, Heroku, Git</i>	Nov 2020 – Dec 2021
<ul style="list-style-type: none">A webapp where you can compose your daily blogs and they will be stored on a cloud baseGet a little idea about all the blogs on the home page and to find more about a blog you can go to its separate pageUsed MongoDB Atlas to store the data and Heroku for deployment	

POSITIONS OF RESPONSIBILITY

Tech-Head Gopali Youth Welfare Society <i>IIT Kharagpur</i>	Dec. 2020 – Present <i>Kharagpur, India</i>
<ul style="list-style-type: none">Maintain and keep updating the website of the society whenever a new event comes up or there is some bugProposed new website structure of GYWS with better UI/UX, which is being implemented by the teamMentored a group of around 25 students to help them learn software development so they can also contribute to society.	

COURSEWORK

Completed: Programming & Data Structures, Image Processing, Algorithms-I Lab

MOOCs: Deep Learning Specialisation from Coursera, Machine Learning by Stanford University, Full Stack web development from Udemy