

Mayank

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EDUCATION

Delhi Technological University	June 2027
<i>B. Tech. Computer Science and Engineering</i>	<i>CGPA: 9.4</i>
Central Board of Secondary Education (Class 12th)	May 2023
<i>Computer Science, Mathematics, Physics, Chemistry, English, Physical Education</i>	<i>Grade: 97.4 %</i>
Central Board of Secondary Education (Class 10th)	August 2021
<i>English, Hindi, Mathematics, Science, Social Science, Sanskrit</i>	<i>Grade: 97.8 %</i>

COURSEWORK

Courses: Data Structures, Basics of Machine Learning and Applications, Web Designing, Programming Fundamentals, Computer Aided Engineering Graphics, Discrete Structures, Applied Maths, Applied Physics, Introduction to Environmental Science, Professional Ethics & Human Values

Additional Courses :

- Machine Learning Specialisation from Stanford Online, DeepLearning.AI, Coursera
- Computer Vision- Build convolutional neural networks with TensorFlow and Keras from Kaggle
- Google Cloud Study Jam Program from Google Developer Student Club- DTU
- MATLAB Onramp from MathWorks

SKILLS

Languages: C/C++, Python, HTML/CSS, MATLAB, Arduino, SQL, \LaTeX

Tools: Git/GitHub, VS Code, Google Cloud Platform, AutoCAD

Libraries: pandas, NumPy, Matplotlib, Tensorflow, Keras, Scikit-Learn, imblearn, OpenCV, Tkinter

PROJECTS

- Facial Expression Recogniser** | [Github Link](#) | *Python, Tensorflow, pandas, numpy, imblearn, VS Code* Feb. 2024
- Addressed the challenge of handling a highly unbalanced dataset (FER2013) by employing various techniques such as SMOTE, Random Oversampling, and Augmentation to achieve data balance.
 - Developed and assessed over 50+ distinct models from scratch, spanning Fully Connected Neural Networks to Convolutional Neural Networks.
 - Explored Transfer Learning using pre-trained models like Inception and VGG16.
- Sarojini Mart** | [Github Link](#) | *HTML/CSS, VS Code* Dec. 2023
- Static e-commerce website
 - Experimented with various CSS functionality
 - Learned HTML and CSS
- Play with OpenCV** | [Github Link](#) | *Python, Tkinter, OpenCV, VS Code* Oct. 2023
- This python program allows users to open image, convert it to black and white image, show edges of the image (by using Canny method), detect lines (by HoughlinesP method), circles (by Houghcircles method) and human faces (by Haar Cascade method) in the image using OpenCV
 - The purpose of this program was to allow the users to test the limits of OpenCV and to find its breaking point easily using the tracebar that can change various parameters
 - This was made to help beginner learners of OpenCV to get the idea about the effect of each parameter.

DataTransferLoRa | [Github Link](#) | *Arduino, VS Code*

Sept. 2023

- Team Project with DelTech Baja
- This project aimed to send data from various sensors installed in the vehicle to a computer located at some other place a long distance away from the computer continuously and effectively with the help of LoRa
- Learned about various hardware like SX1278 LoRa Transceivers, Arduino Uno, IR sensor, NEO-6M GPS, DHT-11 sensor, and Ultrasonic Sensor(HCSR04 sensor)

AWARDS

- **Reliance Foundation Undergraduate Scholarship** : As a Reliance Foundation Undergraduate Scholar, I have been given an incredible opportunity to not only pursue my academic goals but also to be a part of a community of like-minded individuals who are driven to make a positive impact on society. The program has equipped me with the necessary tools and resources to excel in my studies and has provided me with a platform to engage in various extra-curricular activities that have helped me develop my leadership and communication skills. Being a part of this community has broadened my horizons and has given me the confidence to pursue all my dreams and aspirations.
- **CBSE Certificate of Merit in Mathematics** : CBSE- All India Secondary School Examination-2023, Certificate of Merit in Mathematics for scoring 100 marks. This certificate is given to 0.1% students who have scored the highest marks in various subjects..

EXPERIENCE

DelTech Baja | *Member*

Sept. 2023 - April 2024

Technical Team of DTU, One of the oldest Baja SAE team in India and was one of the first teams from Asia to participate in overseas events (South Africa and the USA), Involved in Electronics and ML department

AlgoRave | *Member*

Sept. 2023 - Present

Involved in the club centered around Competitive Programming

MACS- Mathematics & Computing Society | *Member*

Sept. 2023 - Present

Involved in AI/ML department

Google Developer Students Club (GDSC - DTU) | *Member*

Sept. 2023 - Present

Involved in Google Cloud Study Jam Program

EVENTS

Annual Information Literacy Workshop – “EResources: A Gateway for Research, 7th edition

Sept. 2023

I had the privilege of attending the Annual Information Literacy Workshop titled ”EResources: A Gateway for Research” 7th edition organised by Central Library, DTU from 25th of September to 29th of September This invaluable experience equipped me with essential skills and knowledge to enhance my research capabilities. Throughout the workshop, I gained proficiency in utilizing a range of academic resources, including Engineering Village, JGate, Nature & Springer, Taylor and Francis, and IEEE (Institute of Electrical and Electronics Engineers). Moreover, I delved into the intricacies of research methodologies, exploring the steps involved in conducting effective research and presenting it efficiently. The workshop also introduced me to Turnitin, helping me grasp the significance of academic integrity. Furthermore, it emphasized the importance of adhering to moral and ethical values in the research process. It equipped me with a comprehensive toolkit for successful research endeavors.

