

# Debajyoti Talukder

Aspiring software engineer with a passion for learning and innovation. Proficient in programming and problem-solving. Well-versed in C, Data Structures and Algorithms, Python, Java, Git, GitHub, Web Development, and Full-Stack Development. Eager to learn, grow, and contribute to the success of a dynamic organization.

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📄 debajyotitalukder2001.github.io/portfolio.github.io

🔄 github.com/DebajyotiTalukder2001

## EDUCATION

### B.Tech, Computer Science and Engineering

Murshidabad College of Engineering and Technology, Berhampore, West Bengal

2020 - 2024

University: Maulana Abul Kalam  
Azad University of Technology,  
West Bengal | CGPA: 9.30

### Class 12th, Science

Krishnagar Collegiate School, West Bengal

2018 - 2019

West Bengal Board | Percentage:  
91.8

### Class 10th

Krishnagar High School, West Bengal

2016 - 2017

West Bengal Board | Percentage:  
93.8

## PERSONAL PROJECTS

### Brain Tumor Detection using CNN

- **GitHub Link:** [https://github.com/DebajyotiTalukder2001/BrainTumorDetection\\_Using\\_CNN](https://github.com/DebajyotiTalukder2001/BrainTumorDetection_Using_CNN)
- **Technologies used:** Python, Python libraries such as NumPy, Tensorflow, Keras, Matplotlib, and Streamlit
- Built a high-accuracy brain tumor detection system using TensorFlow and Streamlit, achieving an impressive success rate in predicting tumor presence from MRI images. Trained the TensorFlow model in the Google Colab environment, and average accuracy achieved by the system is up to 93%, leveraging a powerful convolutional neural network (CNN) architecture. Deployed the model using Streamlit and Google Colab Local Tunnel API, leveraging Streamlit's intuitive framework for rapid development and streamlined deployment

### Traffic Monitoring System

- **GitHub Link:** <https://github.com/DebajyotiTalukder2001/Traffic-Monitoring-System>
- **Technologies used:** Python, Python libraries such as OpenCV, NumPy, Pandas, and Ultralytics YOLOv8
- This system can efficiently detect, track, and count vehicles moving in either direction and estimate the speed of the vehicles. It can also detect vehicle speed limit violations to ensure road traffic safety. Implemented the centroid tracking algorithm to track vehicles. The system was evaluated on the YOLOv8's state-of-the-art pretrained model. Tested on different videos, and average accuracy achieved by the system is up to 95%

### E-Commerce Website

- **GitHub Link:** <https://github.com/DebajyotiTalukder2001/E-Commerce>
- **Technologies used:** HTML, CSS, JavaScript, jQuery, Bootstrap, PHP, MySQL
- Created a complete responsive E-Commerce website based on Nykaa-Fashion, which is one of the largest E-Commerce platforms for fashion and lifestyle in India. The website's features include admin panel, user registration, product listings, shopping cart, checkout, and order management

## TECHNICAL SKILLS

### Computer Science Fundamentals

Data Structures and Algorithms, Database Management Systems (DBMS), Object-Oriented Programming (OOP), Computer Networks, Operating Systems (OS), Software Engineering, Cloud Computing, DevOps, Machine Learning, Deep Learning, Artificial Intelligence, Cyber Security

### Programming Languages

C, Python, Java

### Web Development and Full-Stack Development

HTML, CSS, JavaScript, Bootstrap, Tailwind CSS, jQuery, React.js, PHP, Node.js, APIs, Django, Spring Boot, Flask, FastAPI

### Python Data Analysis, ML, and Image-Processing Libraries

Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow, PyTorch, Streamlit, OpenCV, Pillow, Tkinter, SciPy

### DevOps

Git, GitHub, Containerization, Docker, Kubernetes, CI/CD, Jenkins, Maven, Ansible, Selenium, JUnit

### Database Management

MySQL, MongoDB, Oracle SQL

### Tools

MS Visual Studio Code, Eclipse IDE, XAMPP, Figma (UI/UX), Google Colab, Oracle VM VirtualBox, Microsoft Azure, Microsoft Office, AI tools such as Bard and ChatGPT

### Operating Systems

Linux, Windows

## SOFT SKILLS

Problem-Solving

Communication

Analytical Skills

Teamwork

Adaptability

Work Ethic

## CERTIFICATES

IBM SkillsBuild Virtual Internship Program on Front-End Development (2023) [🔗](#)

Industrial Training Program on Full-Stack Web Development by Ardent Computech Pvt. Ltd., Kolkata, West Bengal (2023) [🔗](#)

Python Development Virtual Internship program by CodeSpeedy Technology Private Limited, Kolkata, West Bengal (2023) [🔗](#)

Software Development Virtual Internship program by Exposys Data Labs, Bengaluru, Karnataka (2023) [🔗](#)