# 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, Git, GitHub, Web Development, and Full-Stack Development. Adept at using Python, Java, and other programming languages to produce clean code. 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

## INTERNSHIP

### Python Developer Intern
CodeSpeedy Technology Private Limited

*05/2023 - 08/2023*   *Kolkata, West Bengal, India (Remote)*

*CodeSpeedy Technology Private Limited is an IT company that provides coding solutions along with various IT services like web development, software development.*

Achievements/Tasks

- Used Python libraries such as Pandas, NumPy, Matplotlib, and seaborn to perform data analysis tasks
- Used Python libraries such as pyotp, qrcode, and cryptography to develop a message security system that ensures a secure environment where messages are sent between users and uses a combination of encryption and authentication
- Created a face recognition system using Python libraries such as OpenCV, Dlib, and face_recognition that can compare two images and efficiently detect if both images have the same face or not
- https://github.com/DebajyotiTalukder2001/My-Repo/tree/master/CodeSpeedy
- Contributed source codes/projects on Coders Packet, an online platform of source code directory for projects
- https://coderspacket.com/contributor/Debajyoti2001
- Achieved Certificate of Excellence
- https://drive.google.com/drive/folders/1Mwxha3BwJU2QO8yf SubXw-B7k4CLjYBp?usp=sharing

### Full-Stack Web Developer Intern
Ardent Computech Pvt. Ltd.

*12/2022 - 05/2023*   *Kolkata, West Bengal, India (Remote)*

*Ardent Computech Pvt. Ltd. is a learning and software development company established in 2002. The company started with the mission to bridge the gap between academia and the industry.*

Achievements/Tasks

- Utilized the opportunity to accelerate learning in project-based, collaborative environments
- honed Full-Stack Web Development skills through hands-on learning from industry experts
- Used technologies like HTML, CSS, JavaScript, jQuery, Bootstrap, PHP, and MySQL to develop a complete responsive E-Commerce Website
- https://github.com/DebajyotiTalukder2001/My-Repo/tree/master/ArdentComputech
- Achieved Certificate of Excellence
- https://drive.google.com/drive/folders/1lXBjZHQPy6d72Mwia M5MZpdVR6LHc5zD?usp=sharing

## EDUCATION

### Bachelor of Technology in Computer Science & Engineering
Murshidabad College of Engineering and Technology

*11/2020 - 07/2024*   *University: Maulana Abul Kalam Azad University of Technology - West Bengal, India | CGPA: 9.30*

Courses

- C (Programming Language), Data Structures and Algorithms (DSA), Computer Organization and Architecture (COA), Object-Oriented Programming (OOP), Software Engineering, Database Management Systems (DBMS), Operating Systems (OS), Computer Networks, Cloud Computing

### Class 12th, Science
Krishnagar Collegiate School
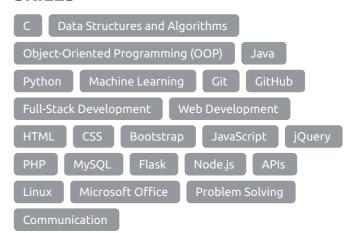
*07/2018 - 07/2019*   *West Bengal Board | Percentage: 91.8*

### Class 10th
Krishnagar High School

*05/2016 - 05/2017*   *West Bengal Board | Percentage: 93.8*

## SKILLS

`C` `Data Structures and Algorithms` `Object-Oriented Programming (OOP)` `Java` `Python` `Machine Learning` `Git` `GitHub` `Full-Stack Development` `Web Development` `HTML` `CSS` `Bootstrap` `JavaScript` `jQuery` `PHP` `MySQL` `Flask` `Node.js` `APIs` `Linux` `Microsoft Office` `Problem Solving` `Communication`

# PERSONAL PROJECTS

### Brain Tumor Detection using CNN (10/2023 - 11/2023)

- **Technologies used:** Python, Python libraries such as NumPy, Tensorflow, Keras, Matplotlib, and streamlit
- Magnetic resonance imaging (MRI) is the imaging technique used to diagnosing brain tumor disease. Early diagnosis of brain tumors is an essential task in medical work to find out whether the tumor can potentially become cancerous. This brain tumor detection system is a system that will predict whether the given image (MRI) of the brain has a tumor or not
- Deep learning methods are now often applied for object identification, classification, and feature extraction. A Convolutional Neural Network (CNN) is a type of deep learning algorithm that is particularly well-suited for image recognition and processing tasks. It is made up of multiple layers, including convolutional layers, pooling layers, and fully connected layers
- I have trained the tensorflow model in Google Colab on a virtual Tesla T4 GPU and average accuracy achieved by the system is up to 93%
- I have also used streamlit for model deployment. Now, using Streamlit, we can deploy any machine learning or deep learning model and any Python project with ease and without worrying about the frontend. Streamlit is very user-friendly.
- **GitHub LInk:** https://github.com/DebajyotiTalukder2001/BrainTumorDetection_Using_CNN

### Traffic Monitoring System (08/2023 - 10/2023)

- **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
- Used the centroid tracking algorithm to track the vehicles. The centroid tracking algorithm works by tracking the centroids of the vehicles detected by YOLOv8
- Leveraging the previous YOLO (You Only Look Once) versions, the YOLOv8 model is faster and more accurate while providing a unified framework for training models for performing Object Detection, Instance Segmentation, and Image Classification
- YOLOv8 is more efficient than previous versions because it uses a larger feature map and a more efficient convolutional network
- The system was evaluated on the YOLOv8's pretrained model (e.g., yolov8s.pt). All YOLOv8 models for object detection are already pre-trained on the COCO dataset, which is a huge collection of images of 80 different types
- Tested on different videos, and average accuracy achieved by the system is up to 95%
- **GitHub Link:** https://github.com/DebajyotiTalukder2001/Traffic-Monitoring-System

### E-Commerce Website (03/2023 - 05/2023)

- **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
- Developed both the Front-End and Back-End parts of the website to make it a fully functional Full-Stack E-Commerce website that provides customers with a seamless shopping experience
- The website's features include admin panel, user registration, product listings, shopping cart, checkout, order management, search functionality, reviews and ratings, and customer support
- The website is optimized for mobile devices, making it easy for customers to make purchases on the go
- **GitHub Link:** https://github.com/DebajyotiTalukder2001/E-Commerce
- Deployed the Front-End part of the website on GitHub Pages
- **GitHub Link (Front-End Part):** https://github.com/DebajyotiTalukder2001/nykaa-fashion-clone.github.io
- **Link (GitHub Pages):** https://debajyotitalukder2001.github.io/nykaa-fashion-clone.github.io/

# CERTIFICATIONS

Codekaze : Sep'23 - Coding Ninjas (2023)

IBM SkillsBuild Virtual Internship Program on Front-End Development (Jointly organized by AICTE, IBM, and Edunet Foundation) (2023)

Software Development Virtual Internship Program - Exposys Data Labs (2023)

Software Engineering Virtual Experience Program - Forage (2023)

Applied Data Science with Python - IBM (2023)

Python Programming Essentials - Cisco Networking Academy (2023)

Web Development Fundamentals - IBM (2023)

The Full Stack by Meta - Coursera (2023)

Crash Course on Python by Google - Coursera (2023)

Getting Started with Full Stack Java Development - Simplilearn (2023)

Python for Beginners - Simplilearn (2023)

PrepSAT Hiring Jobathon - PrepInsta (2023)

Java Programming Fundamentals - Infosys (2022)

Link (Certifications URL):
https://drive.google.com/drive/folders/1MvIDSFNCYQsaRgyUvA-VoU-R4CSnHfu0

# INTERESTS

| Competitive Programming | Software Engineering |
| Open-Source Contribution | DevOps |
| Full-Stack Development | Web Development |
| Machine Learning | Artificial Intelligence |
| Data Science | Deep Learning | Cyber Security |

# LANGUAGES

**English**
*Professional Working Proficiency*

**Hindi**
*Professional Working Proficiency*

**Bengali**
*Native or Bilingual Proficiency*