Debajyoti Talukder

Driven and enthusiastic individual with the desire to excel in the IT industry. Eager to learn, grow, and contribute to the success of a dynamic organization, leveraging strong work ethics to drive excellence and achieve collective goals.

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TECHNICAL SKILLS

Programming Languages
C, Java, Python, Bash/Shell Scripting (Unix/Linux)

Web Development
HTML, CSS, Bootstrap, Tailwind CSS, JavaScript, jQuery, React.js, Node.js, REST APIs, PHP, Flask

Database Management
MongoDB, MySQL

Python ML Libraries
NumPy, Pandas, Matplotlib, Plotly, Seaborn, Scikit-learn, TensorFlow, Keras, Streamlit

Tools and Technologies
Machine Learning (ML), Deep Learning, DevOps, GitHub, Docker, Amazon Web Services (AWS), Google Colab, Visual Studio Code, PyCharm, IntelliJ IDEA

EDUCATION

Bachelor of Technology (B.Tech.) in Computer Science and Engineering (CSE)
Murshidabad College of Engineering and Technology (MCET)

11/2020 - 07/2024   *University: Maulana Abul Kalam Azad University of Technology (MAKAUT), West Bengal | CGPA: 9.33*

Relevant Courses
- Data Structures and Algorithms (DSA)
- Database Management Systems (DBMS)
- Operating Systems
- Software Engineering
- Design and Analysis of Algorithms (DAA)
- Object-oriented Programming (OOP)
- Computer Networks
- Cloud Computing

Class 12th (Science)
Krishnagar Collegiate School

07/2018 - 07/2019   *Board: West Bengal Council of Higher Secondary Education (WBCHSE) | Percentage: 91.8%*

Class 10th
Krishnagar High School

05/2016 - 05/2017   *Board: West Bengal Board of Secondary Education (WBBSE) | Percentage: 93.8%*

PROJECTS

Traffic Monitoring System ⎘
- Developed a system using **Python** and its libraries such as **OpenCV**, **NumPy**, **Pandas**, and **Ultralytics YOLOv8** that effectively detects, tracks, and counts vehicles, estimates their speeds, and identifies speed limit violations with strong accuracy, promoting proactive traffic management and safety.
- Utilized **OpenCV**, a widely used **Python** library for **computer vision**, to develop a user-friendly, **GUI-based** system for easy configuration of **regions of interest** (ROIs) within traffic video feeds, facilitating precise vehicle monitoring.
- Achieved robust performance across diverse video datasets by effectively integrating **YOLOv8's state-of-the-art pretrained model** and implementing a **centroid tracking algorithm**, ensuring efficient vehicle tracking and adaptability to real-world traffic scenarios.

E-Commerce Website ⎘
- Built a **fully responsive e-commerce website** inspired by Nykaa-Fashion, India's leading fashion and lifestyle platform. Used **HTML**, **CSS**, **Bootstrap**, **JavaScript**, and **jQuery** in the **front-end** and **PHP**, **MySQL** in the **back-end**.
- Implemented functionalities like user registration and login, product listings, shopping cart with checkout, and an admin panel, utilizing **XAMPP** and **phpMyAdmin**.
- Optimized the website for both mobile and desktop devices, leveraging **Bootstrap's responsive framework**, which substantially reduced development time, ensuring a seamless and user-friendly shopping experience across all platforms.

CERTIFICATES

AWS Knowledge: Cloud Essentials (2024) ⎘
AWS Skill Builder

IBM Cloud Essentials (2024) ⎘
IBM SkillsBuild

Linux Essentials (2024) ⎘
Cisco Networking Academy

SQL and Relational Databases (2024) ⎘
IBM SkillsBuild

Machine Learning and Data Science with Python (2024) ⎘
IBM SkillsBuild

Youth Employment Program (2024) ⎘
Tata Consultancy Services

IBM SkillsBuild Internship Program on Front-end Development (2023) ⎘
AICTE, IBM, and Edunet Foundation

Web Development Fundamentals (2023) ⎘
IBM SkillsBuild

Python Programming Essentials (2023) ⎘
Cisco Networking Academy