Debajyoti Talukder

Highly motivated and results-oriented individual with the desire to excel as a software engineer. Well-versed in C, Java, Python, machine learning, web development, and full-stack development. Eager to learn, grow, and contribute to the success of a dynamic organization.

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Krishnanagar, India | debajyotitalukder2001.github.io/portfolio.github.io

in.linkedin.com/in/debajyoti-talukder-29358a25b | github.com/DebajyotiTalukder2001

EDUCATION

B.Tech. (Computer Science and Engineering)
Murshidabad College of Engineering and Technology, West Bengal

11/2020 - 07/2024 — *University: MAKAUT (WB) | CGPA: 9.30*

Relevant Courses

- Data Structures and Algorithms (DSA)
- Object-Oriented Programming (OOP)
- Software Engineering
- Computer Networks
- Design and Analysis of Algorithms (DAA)
- Database Management Systems (DBMS)
- Operating Systems
- 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*

INTERNSHIP

Python Developer Intern
CodeSpeedy Technology Private Limited

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

Achievements/Tasks

- Performed machine learning and data analysis tasks using Python and its libraries such as NumPy, Pandas, Matplotlib, Seaborn, and Scikit-Learn.
- Contributed 5+ Python projects to CodersPacket, an online platform of source code directory for projects.

CERTIFICATES

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

Full-Stack Web Development Industrial Training Program (2023)
Ardent Computech Pvt. Ltd., Kolkata, West Bengal

PrepSAT: Hiring Jobathon (2023)
PrepSAT by PrepInsta is a Jobathon, i.e., a hiring hackathon.

TECHNICAL SKILLS

Programming Languages
C, Java, Python

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

Database Management
MySQL, MongoDB

Developer Tools
MS Visual Studio Code, Eclipse, Google Colab, Git, GitHub, Docker, Postman

Operating Systems
Linux, Windows

PROJECTS

Brain Tumor Detection (10/2023 - 11/2023)

- **Technologies used:** Python, CNN, TensorFlow, Keras, NumPy, Matplotlib, Streamlit.
- Developed and implemented a **deep learning-based** system using **TensorFlow** and **Keras** for brain tumor detection from MRI images.
- Built and trained a **convolutional neural network architecture**, utilizing **Google Colab's cloud environment**, and achieved **93% accuracy** in detecting tumors on MRI scans.
- Deployed the model by creating a user-friendly web app using **Streamlit's intuitive framework** for rapid model deployment and streamlined development, reducing deployment time significantly.

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

- **Technologies used:** Python, OpenCV, NumPy, Pandas, and Ultralytics YOLOv8.
- Developed a system that effectively detects, tracks, and counts vehicles, estimates their speeds, and identifies speed limit violations with **95% accuracy**, promoting proactive traffic management and safety.
- 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 adaptability to real-world traffic scenarios.

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

- **Technologies used:** HTML, CSS, Bootstrap, JavaScript, and jQuery in the front-end. PHP and MySQL in the back-end.
- Built a **fully responsive e-commerce website** inspired by Nykaa-Fashion, India's leading fashion and lifestyle platform.
- Implemented functionalities like user registration and login, product listings with search and categorization, a secure shopping cart, an integrated payment gateway, and a comprehensive order management system for the 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.