TANMOY ROY

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email ◇ Linkdin ◇ Github

EDUCATION

Bachelor of Computer Science, Jadavpur University   Expected 2025

Higher Secondary Education , Barrackpore Govt High School   Achieved 91.8% (Jul 2018 - May 2020)
Secondary Education, Barrackpore Govt High School   Achieved 91.57% (Jan 2017 - Jun 2018)

SKILLS

ios development,
Deep Learning(custom trained YOLO models that can detect : the vehicle path, detect the object),
Drone Works(made a quad-copter using pixhawk flight controller)
Language : C , C++, JAVA, PYTHON, swift

EXPERIENCE

I'm a bit of a tech enthusiast, and I've been diving deep into stuff like Machine Learning, Deep Learning, Data Science, and AI with a background from Jadavpur University .

My experience primarily lies in Deep Learning, where I have spearheaded projects utilizing custom-trained YOLO models (YOLO v7, YOLO v8, YOLO NAS).

- **Vehicle Path Detection and Counting**: This system accurately tracks vehicle paths, aiding in traffic management and parking optimization. GitHub:(https://github.com/Tanmoy07072001/Deep-Learning)
- **Face Mask Detection**: Utilizes YOLO models to identify proper, partial, or absent mask wearing, contributing to public health, especially during events like the COVID-19 pandemic.
  GitHub:(https://github.com/Tanmoy07072001/Deep-Learning)
- **Streamlit Web App**: Implemented custom-trained deep learning modules in a Streamlit web app. Users can select from 80 object types in YOLOv8 and view detection results through images, videos, and live webcam feeds.Github link: (https://github.com/Tanmoy07072001/yolowebapp)
- **Autonomous Drone Project**: Additionally, I'm working on an autonomous drone project equipped with cameras to capture media for deep learning analysis. This has applications in surveillance, environmental monitoring, and more, aiming to revolutionize various industries through meticulous integration and testing.

PROJECTS

twitter : a social media app(ios dev) The app utilizes Google Firebase for backend services and Firestore for scalable database storage. KingFisher handles image downloading and caching. Components like Authentication, UploadTweet, and Profile manage user-related functionalities and UI. The MainTab serves as the primary navigation interface, while Models define data structures. Service handles networking tasks. For animations, simple frame-based motion is used to avoid additional package dependencies and keep the app size minimal. (https://github.com/Tanmoy07072001/Twitter)

Whisper : A Chat Application Whisper is an intuitive chat application designed to facilitate seamless communication between users. Leveraging various components and package dependencies, it offers a user-friendly interface and robust functionality. Whisper utilizes Rive and Spline for captivating animations, Firebase and Firestore for backend infrastructure and message storage, and SDWebImageKit for efficient image handling. It features streamlined authentication, seamless messaging with message history access, and straightforward logout functionality, prioritizing user convenience and data security. Experience Whisper's features through its accompanying video presentation. (https://github.com/Tanmoy07072001/chatapp2-name-whisper-