Chandril Basu

+91 9679354434 | basuchandril402@gmail.com | LinkedIn:// Chandril Basu | Github:// Chandril Basu

EDUCATION

JADAVPUR UNIVERSITY   **2022 - Present**
BACHELORS IN ENGINEERING, ELECTRONICS AND TELE-COMMUNICATION ENGINEERING
- **GPA:** 7.55/ 10.0 Linear GPA upto Fifth semester
- **Achievements:** Semester Marksheet Link
- **Coursework:** Antenna and Propagation, Computer Programming and Numerical Methods, Signal Processing and Communication, Digital Communication, Digital Logic Circuits, Data Structures and Algorithms

WORKING EXPERIENCE

DTE 4 Calamity and Humanity Pvt Ltd.   **Jun 2025 - Jul 2025**
INTERNSHIP
- Engineered reinforcement learning algorithms (PPO, DQN, A2C, A3C) on Neural Networks using PyTorch to train a Cobra Robot on snake and worm movement patterns.
- Utilized Unity MLAgents to achieve robust simulation and model training, integrating Python-based frameworks aligned with AI-powered tool development.
- Developed and simulated a Collapsed Infrastructure Environment in Unity, replicating real-world rubble size ratios to enhance system validation.

PERSONAL PROJECTS

QR CODE GENERATOR | **Feb 2025**
- Developed a WebApp to generate a downloadable QR Code from image link, which the user can scan back to get the image link.
- Implemented Django framework with PostgreSQL database.

YOUR ATS - APPLICANT TRACKING SYSTEM | **2024**
- Developed a WebApp for checking Resumes in a fast,effortless fashion.
- Used Streamlit for Web Interface.
- Fetched Google GenerativeAI API Key for implementing State-of-the-Art algorithm.

TELEGRAM BOT | **2024**
- Built a RESTful backend using Django and Django REST Framework with JWT-based authentication, including both public and protected API endpoints
- Implemented asynchronous task processing using Celery and Redis, enabling background email delivery upon user registration
- Integrated a Telegram bot with Python and Telegram Bot API to capture /start commands and store user data in a PostgreSQL/SQLite database.

WHATSAPP CHAT ANALYZER | **2024**
- Built a Streamlit web app to analyze WhatsApp chat data using machine learning and NLP techniques.
- Extracted insights like most active users, frequent words, and link patterns using urlextract.
- Visualized chat metrics with matplotlib and seaborn; currently integrating sentiment analysis features.

TECHNICAL SKILLS

- **Languages**: Python, C, C++, Matlab, Verilog
- **Framework**: Django, NumPy, Pandas, PyTorch, scikit-learn
- **Tools and Technologies**: SQLite, Langchain, OpenCV, REST APIs, Vector Databases
- **Computer Science Fundamentals**: OOPS, Operating Systems, DBMS
- **Technologies in Learning**: Tensorflow, Keras, Typescript, Kubernetes, Retrieval-Augmented Generation, Large Language Models, AI-powered Tools Development