AGNIVA CHAKRAVARTY

Contacts: +91-9382315550
Email: agnivac11@gmail.com
Address: Asansol, West Bengal
LinkedIn: https://www.linkedin.com/in/agniva-chakravarty-b8a18b23b/

Education

- B. Tech in Electronics & Communication Engineering (2024),
  College of Engineering and Management, Kolaghat | CGPA: 8.15
- 12th (2020) | Green Point Academy (CBSE) | 76.2 %
- 10th (2018) | Green Point Academy (CBSE) | 80.6 %

Technical Skills

- **Programming Languages:** Python, C++,SQL
- **Frameworks & Libraries:** TensorFlow, Scikit-learn, NLTK, Streamlit, Flask
- **ML & DL:**Natural Language Processing, Artificial Neural Networks (ANN), Recurrent Neural Networks (RNN)
- **Web Technologies:** Postman
- **Operations :** Docker
- **Tools & Platforms:** Git, GitHub, Linux

Experience

Java Developer Intern
Mediafirewall Innovations Pvt. Ltd. – Bangalore 1 April, 2025 - 14 April, 2025

- Developed an AI-driven data enrichment system to automate B2B contact extraction from app metadata.
- Leveraged **Perplexity AI** with advanced prompt engineering to identify company leadership (e.g., CEO, CFO) based on app developer information.
- Integrated **Apollo People Enrichment API** to retrieve verified emails, phone numbers, and LinkedIn profiles of key decision makers.
- Streamlined lead generation workflow reducing manual research time and enhancing data accuracy.

Projects

- **TalkBot** Github
  - **Developed a multilingual chatbot using NLP techniques** that classifies user intent and responds accurately in the user's native language (e.g., Bengali, Hindi, Spanish), enhancing inclusivity and accessibility in conversational AI systems.
  - **Built a lightweight intent classification model** using **`TfidfVectorizer`** and **`LogisticRegression`**, trained on a custom **`intents.json`** dataset, and integrated translation modules using **`langdetect`** and **`deep-translator`** for seamless multilingual support.
  - **Deployed the chatbot via a Streamlit web interface**, enabling real-time user interaction, automatic language detection, translation of input/output, and persistent conversation logging in a CSV for future analytics.
- **Crime Insight Extractor** Github
  - **Developed an AI-powered police call analytics system** that transcribes, translates, and classifies complaint audio calls, extracting critical crime-related insights such as time and location to support faster emergency response.
  - Built the pipeline using Faster-Whisper for offline speech-to-text, langdetect and GoogleTranslator for multilingual support, and zero-shot classification with BART-large-MNLI to categorize complaints without custom training.
  - Implemented regex-based insight extraction for time/place mentions, integrated modules into a Streamlit app for interactive use, and used Pydub to handle various audio formats including .mp3 and .wav.