SUBHAJYOTI MAITY

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Objective

Final-year **B.Tech student in AI & ML** with a **collaborative mindset** and a commitment to **continuous skill development**. Proficient in **Python** and **Machine Learning** fundamentals, seeking to apply project experience to real-world challenges while delivering **data-driven solutions**.

Skills

Programming: Python, Java, JavaScript, MySQL, HTML

Frameworks: Flask, TensorFlow, Librosa, NumPy, Pandas, Streamlit, Scikit-learn

Technologies: Git/GitHub, Google Colab, VS Code, IntelliJ, PyCharm

Coursework: Data Structures & Algorithms, OOP, DBMS, Machine Learning, Operating Systems

Soft Skills: Leadership, Quick Learner, Creative Thinker, Teamwork

Education

Netaji Subhash Engineering College (MAKAUT)   West Bengal, India
*B.Tech in Artificial Intelligence and Machine Learning; **CGPA: 6.66/10.00** (Current)*   *Nov 2022 – Present*

Nirmal Hriday Ashram Boys High School   West Bengal, India
*Higher Secondary Education; **WBCHSE Boards Score: 72.8%***   *Apr 2020 – Mar 2021*

Charkaboni High School   West Bengal, India
*Secondary Education; **WBBSE Boards Score: 75.14%***   *Apr 2018 – Mar 2019*

Certifications

OCI 2025 Certified Generative AI Professional   View Credential

Python Certification – HackerRank   View Credential

Java Certification – HackerRank   View Credential

Projects

Employee Attrition Prediction – *Python, XGBoost, Scikit-learn, Streamlit*   ⌗ GitHub | *Feb 2026*

- Developed a supervised **classification pipeline** using the IBM HR Analytics dataset to predict attrition risk.
- Performed data preprocessing and **categorical encoding**; validated multiple algorithms, selecting **XGBoost** with **86% accuracy**.
- Achieved a **0.84 weighted F1-score** and conducted evaluation using **Confusion Matrix Analysis**.
- Implemented **Model Persistence** via Joblib and built a **Streamlit application** for real-time risk classification.

Emotion Detection Using Audio – *Python, TensorFlow, Librosa, Flask*   ⌗ GitHub | *May 2025*

- Designed a comprehensive **audio analytics pipeline** for real-time emotion recognition from voice capture.
- Utilized **Librosa** for feature extraction to isolate **MFCCs** and signal characteristics from audio data.
- Built and trained a **Deep Learning model** in **TensorFlow/Keras**, achieving **82% accuracy**.
- Deployed a **Flask application** to facilitate efficient inference, converting raw audio into actionable insights.

Achievements

- Participated in the **Smart India Hackathon 2024** as a member of Team **Infinity Coders**.
- Earned **Oracle Cloud Infrastructure Certification** with a professional score of **94%**.
- Organized the **Avenir'24** hackathon as a Core Member of the **NEXUS AI Club**.