ARIN SAYANERE

Email: arinsaynere@gmail.com •**Mobile No**: 8830419311 • Nagpur, Maharashtra, 440030

• .linkedin.com/in/arin-sayanere/ • github.com/Arin8830 kaggle: https://www.kaggle.com/arin8830/code

EDUCATION

Yeshwantrao Chavan College of Engineering, Nagpur **2022-2026**

- Bachelor of Technology (BTech) in Electronics Engineering

Dharampeth M.P. Deo Memorial Science College

- **Intermediate (Class XII), Aggregate: 65%** **2020-2022**

Ashirvad English High School **2019-2020**

- Matriculate (Class X), Aggregate: **84.20%**

SKILLS

Python | JavaScript | | HTML | CSS | RESTful APIs |RDKIT| GitHub | MySQL | Figma | UI/UX Design | Node.js | Tailwind CSS | Problem solving| Machine Learning | RAG

OPEN-Source CONTRIBUTION

Kaggle Project – Introvert Personality Classification: Developed a machine learning model to classify individuals as introverts or extroverts using behavioral data. Implemented data preprocessing, feature engineering, and model evaluation using Python, achieving 97% accuracy. Kaggle Link: https://www.kaggle.com/code/arin8830/introvert?

IDEAL-PROJECT

Genome Sequencing Analysis Project: Analyzed genome sequencing data to identify genetic patterns and potential biomarkers. Developed pipelines for data preprocessing, visualization, and exploratory analysis to support genomic research insights.

1. Sentiment Analysis on IMDb Movie Reviews:

- Developed a Natural Language Processing (NLP) project analyzing 50,000 IMDb movie reviews.
- Implemented preprocessing techniques like tokenization and TF-IDF vectorization.
- Trained and evaluated ML models to classify reviews into positive/negative sentiments.
- Achieved high accuracy in sentiment classification, demonstrating effective feature engineering and model optimization.

2. YouTube RAG Bot:

- Built a Retrieval-Augmented Generation (RAG) based chatbot to answer student queries using YouTube video transcripts.
- Utilized free embedding models and lightweight LLMs for efficient semantic search and response generation.
- Developed an interactive Streamlit application for students to access real-time Q&A from educational YouTube content.
- Focused on affordability and accessibility by leveraging open-source models instead of paid APIs.

3. Smart Mining Helmet:

- Designed and developed a smart helmet using various sensors, such as gas, temperature, humidity, accelerometer, GPS module, and the ESP32-OV650 microcontroller.
- Collected data from the surrounding environment to predict whether the area is safe or unsafe.
- Utilized machine learning models: Model 1 predicts the surrounding environment data, and Model 2 predicts miner drowsiness.
- Used real-world datasets to train the models and predict accurate results.

Achievements

1) **1st Rank in Presentation-Making Competition.**
2) **2nd Runner up in Reasoning and Brainstorming Competition.**
3) **604th out of 4329 in Kaggle Competition.**