ARITRA PATTANAYAK

Panipat, Haryana
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Education

Kalinga Institute of Industrial Technology **October 2021 – Present**
B.Tech - Computer Science and Engineering (CGPA – 7.4) *Bhubaneswar, Odisha*

Delhi Public School, Panipat Refinery **June 2019 – May 2021**
Senior Secondary *Panipat, Haryana*
Percentage – 87%

Relevant Coursework

- Data Structures and Algorithms(DSA)
- Operating Systems
- Cloud Computing
- Software Engineering
- DBMS
- OOPs
- Machine Learning
- Big Data
- Artificial Intelligence
- Data Analytics
- Computer Networks

Projects

Speech Buddy | *React, Web Speech API, Tailwind CSS, Recoil* **November 2024**

- Developed a React-based web application enabling users to **practice spoken English interactively**.
- Utilized **Web Speech API** for real-time speech recognition and transcription accuracy.
- Designed a modular frontend with **Tailwind CSS** for a responsive, visually appealing UI.
- Implemented robust features like **random sentence generation**, speech-to-text conversion, and feedback analysis.
- Conducted **extensive testing** for transcription accuracy, cross-browser compatibility, and performance.

CO2 Emission Predictor | *Python, Scikit-learn, TensorFlow, Flask* **April 2024**

- Developed a model to **predict CO2 emissions** based on engine size and no. of cylinders.
- Leveraged various ML models, including **Multiple Linear Regression, KNN, Decision Tree, Random Forest, SVM and Passive Aggressive Regressor**, to drive accurate predictions.
- **Implemented Neural Networks** using **Keras**, successfully training and fine-tuning models for a dataset of **over 1K records**.
- Accurately predicted the CO2 emissions using **Random Forest model**, attaining **R^2 value of 0.70**

Fake News Detection | *Python, Scikit-learn, NLTK, Flask* **January 2024 – March 2024**

- Developed a model to **classify news as real or fake**.
- Leveraged various ML models, including **Naive Bayes, KNN, Logistic Regression, SVM, Random Forest, Passive Aggressive, and Gradient Boosting**, to achieve accurate classification on a dataset of **over 40,000 records**.
- Accurately classified the news using **Random Forest model**, attaining **accuracy value of 0.997**

Technical Skills

Languages: C, C++, Java, Python, HTML/CSS, SQL
Technologies/Frameworks: Scikit-learn, NumPy, Pandas, TensorFlow, Matplotlib, Streamlit
Developer Tools: VS Code, Git, GitHub, Jupyter Notebook, Google Collab, Kaggle, PyCharm

Certifications

- Problem Solving (Basic) - HackerRank
- Problem Solving (Intermediate) - HackerRank
- Generative AI: Introduction and Applications - coursera
- Generative AI: Prompt Engineering Basics - coursera
- Prompt Engineering for ChatGPT - coursera