

ARINJAY WYAWHARE

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Skills

Python | Tensorflow | SpaCy | NLTK | Gym | Streamlit | Transformers | OpenCV | Git | Hugging Face | PennyLane | PyTorch

Work Experience

Dive (Github Octernship)

2023 - 2023

Software Engineer Intern

- Solely developed a video quality assessment and media profiling pipeline, implementing a state-of-the-art (SOTA) deep learning algorithm for video compression and human perception-based video quality assessment, this reduced human intervention by 80%.
- Successfully integrated AI solutions, improved GitHub CI/CD processes, resulting in a 12% increase in test coverage.
- Utilized Datadog for comprehensive logging and backend optimisation, leading to 15% increase in efficiency.

Microsoft

Cybersecurity Engage Mentee

2022 - 2022

- Mastered cybersecurity tools like Wireshark, Burp Suite, Metasploit, and Nmap while tracking threat trends.
- Contributed to 3 threat reports and 5 analyses during the mentorship.

Projects

C-ML (Machine Learning Framework in C)

- Presently spearheading the development of a **high-speed, C-based** machine learning framework from scratch.
- Emphasizing **modularity** for seamless integration of custom algorithms.

Multilingual Text Classification | LIVE

- Developed and deployed a cutting-edge multilingual text classification web application using **Streamlit**, implementing deep learning techniques such as **multi-layer perceptron**, **LSTM**, and **CNN**, which achieved an impressive **accuracy** of **98%** in language classification.
- Used **Sentence Transformer** and **FastText embeddings** to generate high-dimensional vectors for the text data, and reduced their dimensionality with **t-SNE** for visualization purposes.
- Demonstrated a **6% improvement in accuracy** compared to a **rule-based counterpart**, resulting in an impressive accuracy rate.

JobSlayerML | LIVE

- Conceptualized and launched JobSlayerML, an innovative **Streamlit-based** automated machine learning tool that simplifies model selection and evaluation.
- Supported both **regression and classification tasks**, offering a diverse selection of **over 100 machine learning models** to expand technological horizons.
- Engineered robust solutions for **data imputation**, **categorical variable encoding**, and **comprehensive performance evaluation metrics**, including MSE, MAE, Accuracy, Precision, Recall, F1 Score, F2 Score, and ROC AUC.
- Actively exploring plans to integrate **neural network** support through [NeuralBuilder](#) to enhance the tool's capabilities.

Research

Comparative Analysis of Multilingual Text Classification & Identification through Deep Learning and Embedding Visualization

- Investigated and compared various approaches for multilingual text identification to enhance comprehension and analysis across diverse language datasets.
- Anticipated submission to IEEE in January 2024, aiming to contribute insights to the field of multilingual text classification and deep learning methodologies.

Achievements

- 1st Place in Solana Hackathon Flash Trade Quest, beating 400 teams including AI competitors. **2023**
- Among top 3 students selected from the top 500 GitHub contributors for the GitHub Octernships program. **2023**
- Selected as AWS AI ML Scholar for Winter Cohort, participating in the nanodegree program **2023**
- First Runner-Up at [Hack For Climate Hackathon](#) **2023**
- All India ranked 3rd and global ranked 8th in KOTH on TryHackMe **2021**

Education

Kalinga Institute of Industrial Technology, Bhubaneswar

2024

- BTech in CSE CGPA: 9
- Award : Achieved the First Runner-up position in an intra-University Hackathon.