ARCHIT ANAND

BENGALURU,INDIA
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EDUCATION

- **PES University, Bengaluru**
  B-Tech in Computer Science and Engineering 2021–Current

- **Rajendra Vidyalaya, Jamshedpur**
  - ISC 2021 – 93 %
  - ICSE 2019 - 96.4%

PROJECTS

- **FRAMESCRIPT: NARRATIVE SYNTHESIS FROM IMAGE SEQUENCES**|LLM |TRANSFORMERS|ENCODER-DECODER|
  - Utilized Encoder CNN (Inception v3-based) and Decoder RNN (LSTM-based) for image captioning along with an MPT-7B-Instruct model for story generation.
  - Incorporated Attention with Linear Biases (ALiBi) and Flash Attention.
  - Achieved a BLEU score of 0.77.

- **BOWL BUDDY** | COMPUTER VISION | DEEP LEARNING | REVERSE IMAGE SEARCH |
  - Predicted bowler injury susceptibility by analyzing joint angles and historical injury data.
  - Achieved a high accuracy of 95% with an F1 score of 97.
  - Research paper to be published in ICT4SD 2024 – Goa, India, under the Springer publication conference in August 2024.

- **EL CLASSIFY** | DEEP LEARNING | ENSEMBLE LEARNING |
  - Implemented and compared 7+ classifiers for a music recommendation system.
  - Achieved the best accuracy of 92% through an ensemble of XG Boost and CatBoost.
  - Participated in a Kaggle competition, securing the 14th position out of 100+ teams.

- **PEREGRINE: HIGH-ALTITUDE STOCK MARKET INSIGHTS**|FEATURE ENGINEERING |TIME SERIES FORECASTING |REGRESSION ANALYSIS|
  - Predicted future stock closing prices and recommended 3 major actions (buy, hold, sell).
  - Achieved an accuracy of 91%.
  - Participated in a Kaggle competition, securing the 60th position out of 273 teams.

SKILLS

- **LANGUAGES**: Python, C, C++, JAVA
- **Machine Learning Tools**: TensorFlow, PyTorch, Scikit-learn
- **Computer-Vision** : OpenCV, YOLO, MediaPipe
- **Architectures**: Deep Neural Networks, VAE, RAG, GAN, Diffusion
- **Web-Development**: React, Next.js, Tailwind CSS, MongoDB, MYSQL

EXPERIENCES

- **Summer Intern | PESU Research Foundation**

  June 2024 – August 2024

  - Developing a software which segregates waste substances based on their thermal signatures in real time .
  - Trained the model on a self-created dataset consisting of thermal images of 5 major classes- glass, cardboard, plastic, ceramic, and steel.

- **Summer Research Intern | Sports Analytics and Research Centre(STARC)**

  June 2023 – August 2023

  - Developed ‘BOWL-BUDDY’, a deep learning model for fast bowler performance enhancement.
  - Trained the model using extensive self-generated datasets consisting of 1000+ optimal and injury-prone actions, enabling bowlers to refine their technique by comparing their actions with the model's recommendations, minimizing modifications for improved performance and injury prevention.

- **Centre for Innovation and Entrepreneurship, PES University**

  August 2022 -November 2022

  - Built a startup from scratch, overseeing the 3 major feasibility criteria -social, economic, and technical.
  - Ensured workflow management and created a marketing strategy as well.