KANAPARTHY JASWANTH

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Kaggle: https://www.kaggle.com/work

Exploring the frontiers of Data Driven Intelligence one opportunity at a time.

EDUCATION

Government Arts College For Men, Nandanam, Chennai - ***M.sc Computer science(CGPA: 8.3)*** 2022-2024

Loyola, Chennai - ***B.sc Computer science(CGPA: 6.3)*** 2017-2021

SKILLS

- **Machine learning libraries:** Pytorch, Keras, Scikit-learn, Numpy, Pandas, Scipy
- **Visualization:** Matplotlib, Seaborn, Power BI, Tableau
- **Deep Learning concepts:** CNN, RNN, NLP, GANS
- **WebDev:** Django, Html/CSS, Javascripts
- **Others:** MySQL, Computer Vision,

PROJECTS

Natural Language Processing with Disaster Tweets | *Sentiment Analysis* 2024

- Developed scalable Machine Learning Pipeline combining **TF-IDF Vectorization for Text Processing and Logistic Regression for Text Classification**
- Researched and Applied **Attention mask** to the TF-IDF Vectorization to enhance performance for maximum f1-score(+77), updated in **Kaggle**
- Applied advanced deep learning techniques using pretrained models from **HuggingFace, including DistilBERT and LSTM,** to further improve **sentiment analysis** accuracy.

Deep Learning | *CNN| GANs* 2024

- Developed and implemented **CycleGAN to generate 7000 to 10000 Monet style images** demonstrating expertise in Deep Learning and **Image Synthesis.**
- Optimized model performance through iterative experimentation with **model evaluation metrics and techniques**, achieving a balance between image quality and computational efficiency.
- Utilized **Python and Pytorch** to construct a robust CycleGAN consisting of a generator and discriminator (image recognition) neural network models, achieving high-fidelity replication of Monet's artistic style.

Biomimicry | *Research Project* 2023

- Exhibited a fervor for crafting **modular, scalable, and bug-free Python code(+600 Lines Of Code)** using Pygame framework.
- Ideating and building reusable components (over 150), promoting code reusability and fostering **efficient development.**
- Utilized techniques from **computer vision** and **swarm intelligence** to empower components with decentralized decision-making capabilities for **adaptable systems**.
- Optimized Pathfinding for **Efficiency**: Achieved path construction in obstacle-based terrain within approximately 42 seconds demonstrating efficiency in **code optimization**

RELEVANT EXPERIENCE

Data Analyst - *Toolfe IT Consultancy and Services, Chennai* June 2023 - Aug 2023

- Developed a **High Performance** Credit Risk Model: Achieved **Recall Scores up to 80%** on different Models including **Pipelines,** Decision trees, SVM, Random forests.
- **Optimized Model Performance:** Utilizing Combinatorics, Hyperparameters, Cross Validations, Data Preprocessing and Cleaning
- Communicated technical findings to stakeholders, utilizing **data visualization** tools like Tableau or Power BI for clarity and thorough **Documentations** with Proof of Concept
- Demonstrated **Communicative skills** by Authoring **Blogs(+15)** on Web Analytics and its current trends, Tools and Technology in automation

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AWARDS AND ACHIEVEMENT

- **First prize** recipient, paper presentation - Ethiraj college. "Biomimetic Approach for Pathfinding"
- Participated, **National conference on AI powered Social Media** - NCAISMM
- Hosted the eTOTAL 2023 International Event - Associated with State Project RUSA