Chitimella Praneeth

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Education

Bachelor of Computer Science and Engineering (AI and ML),   12/2021 – present
Keshav Memorial Institute of Technology   Hyderabad
CGPA: 8.86

Intermediate in MPC, *Tapasya Junior College*   07/2019 – 05/2021
Percentage: 96.4%   Hyderabad

Work Experience

Teaching Assistant, *International Finishing School KMIT*   04/2022 – 06/2022
- Facilitated individualized Python instructions for 50+ US clients, achieving a **10%**   Hyderabad
  average improvement in **file handling** and **OOP**s concepts.
- Troubleshot, diagnosed, and resolved complex code issues, ensuring smooth
  python development; reduced bug reports by **50%** and improved overall code
  quality.

Projects

Satellite images to Map Generator, *Source code* 🔗
- Directed the creation of a **Pix2Pix GAN** model, trained on diverse set of **50,000 satellite** and **aerial** images.
- Achieved a **82%** accuracy in generating maps from aerial data, boosting the reliability of urban planning
  initiatives.
- The generator architecture has been modified to a new design known as **PatchGAN**, incorporating a **10%**
  adjustment in learning rate.
- Leveraged an advanced tech stack, employing **PyTorch**, **Keras**, and **TensorFlow** frameworks, alongside
  autoencoders, to optimize the efficiency of the project.

Transfer Learning of chest X-rays, *Source Code* 🔗
- Developed deep learning model using **VGG19** for COVID-19 **chest X-ray** classification for accurate result.
- Implemented transfer learning by **fine-tuning** a pre-trained model, applied data augmentation to increase the
  dataset by **30%**, and conducted a thorough model evaluation, achieving a **87%** accuracy.
- Validated **VGG19** architecture and CNNs with **OpenCV** and **Pillow** for image classification, generating a concise
  classification report.

Advanced Fake News Detection, *Source code* 🔗
- Engineered a Fake News Detection Model leveraging real-time data, incorporating **Naive Bayes**, Random
  Forest, Transformers (**NLI-MeanTokens**), and **BERT**, ensuring accurate analysis.
- Scrapped the information using Beautiful Soap which has an accuracy of **91%** and can lead to the reduction of
  fake news spread by **10%.**
- Incorporated **Selenium** to implement an **Auto Population** system, to reduce the spread of fake news

Technical Skills

C/C++/Python/Java   •   HTML/CSS/JavaScript   •   Git/Github   •   Data Structures and Algorithms

React.js/Node.js   •   PyTorch/TensorFlow

Publications

EXPLORING THE INTERSECTION OF MACHINE LEARNING AND IMAGE PROCESSING, *IIPV3EBS11 series*