DEVI NARASIMAH PRATHAP

FULL-STACK DEVELOPER

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ABOUT ME

Aspiring Full-Stack Developer and B.Tech Computer Science student, skilled in the Full Stacka [Python/Django]. My academic projects have provided me with hands-on experience in designing user-friendly interfaces with HTML & CSS & JAVASCRIPT and building robust, scalable server-side APIs with Node.js. I am seeking my first professional role to translate my knowledge of data structures, algorithms, and web development principles into real-world solutions.

EDUCATION

2021-2025
VIT-AP University

EDUCATION B.Tech in Computer Science and Engineering
CGPA - 7.71 / 10

2019
Sri Chaitanya Junior College

Junior College
CGPA - 7 / 10

PROJECTS

AI for Early Detection of Mental Health Issues Using Text Analysis

- Engineered an end-to-end NLP pipeline to ingest, preprocess, and classify text from diverse sources, including social media (Reddit, Twitter) and benchmark datasets (CLPsych, DAIC-WOZ).
- Leveraged transfer learning to fine-tune a BERT transformer model for a specific classification task, achieving 93% accuracy and a 91.5% F1-score in identifying mental health indicators.
- Implemented data augmentation and regularization techniques to enhance model robustness and generalization, ensuring high performance on noisy, real-world text.
- Conducted comprehensive performance analysis using metrics like precision, recall, and F1-score, benchmarking the model against traditional ML approaches to validate its superior performance.
- Architected the system for scalability, outlining a clear path for future integration into real-world applications like chatbots and mobile mental health monitoring tools.

Technologies Used

- Languages: Python
- Libraries: PyTorch, Hugging Face Transformers, Pandas, Scikit-learn
- Full-Stack : Django, REST APIs, HTML, CSS
- Tools: Git, VS Code

Deepfaek Synthesis

- Architected a modular system for generative video synthesis, decoupling the data pipeline, model inference, and evaluation metrics into independent, testable components.
- Automated the model evaluation process by scripting the calculation of SSIM and PSNR metrics across thousands of video frames, enabling efficient and reproducible benchmarking.
- Managed computational resources (GPU, RAM) on a cloud platform (Google Colab) to train and run computationally expensive Generative Adversarial Networks effectively.
- Authored clean, version-controlled Python code (Git) for the entire project, ensuring maintainability and adhering to software development best practices.

Technologies Used

- Languages: Python
- Libraries: PyTorch/TensorFlow, OpenCV, Dlib, Scikit-image, Pandas, NumPy
- Models/Architectures: Generative Adversarial Networks (GANs), StyleGAN2, First Order Motion Model (FOMM), Autoencoders
- Tools & Platforms: Git, Google Colab, Jupyter Notebook, Gradio, Ngrok

DOG BREED DETECTION

- Developed and deployed a full-stack web application for real-time dog breed identification, providing an intuitive user interface for image uploads and prediction display.
- Built a Python-based backend (using Flask/Django) to serve the trained EfficientNetB3 model through a REST API, handling image processing and model inference on the server-side.
- Designed a responsive front-end (using HTML/CSS/JavaScript) that allows users to seamlessly upload an image and receive the top predicted breed with its confidence score.
- Integrated a complex deep learning model with a web service, managing the entire workflow from user request and data preprocessing to returning and visualizing the prediction.

SKILLS

- PYTHON
- HTML - 5
- CSS
- JAVA SCRITP
- ORACAL SQL
- COMMUNICATION
- GIT

INTERESTS

Cricket Enthusiast

Passion for Music