Gaurav Shantaram Ramane

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PROFILE

Proficient in Deep Learning, Natural Language Processing, Machine Learning, and Computer Vision, I am driven to optimize large language models (LLMs) and develop advanced computer vision solutions. With a robust background in Mathematics and Programming, I excel in deriving actionable insights from complex data. My passion lies in leveraging AI to create intelligent, responsive systems that tackle real-world challenges. Actively seeking opportunities to contribute to impactful AI projects, I aim to push the boundaries of technology and drive organizational growth. Committed to strategic use of cutting-edge AI and vision technologies, I strive to foster collaborative environments that empower cross-functional teams to innovate and achieve collective success.

EDUCATION

Master in data science 2024 – present
Vellore institute of technology

B.sc (computer science) July 2016 – March 2019
Shivaji University, Kolhapur KOLHAPUR, INDIA

PROFESSIONAL EXPERIENCE

- Strong foundational knowledge in Mathematics, Statistical Analysis, and Programming languages like Python.
- Completed hands-on projects in Emotion Detection using CNN models and developed a Q&A chatbot, showcasing proactive learning and application of advanced technologies.
- Motivated to apply academic learning to real-world projects and contribute effectively to transformative initiatives.
- Collaborative and eager to learn from experienced professionals while making a meaningful impact as a dedicated Data Science enthusiast.

PROJECTS

Car Number Plate Detection: Automated license plate detection and recognition system
- **Tech Stack**: Utilized YOLO for object detection, Tesseract OCR for text extraction, and Streamlit for the user interface.
- **Functionality**: Processed images and videos to detect number plates. Extracted text from detected plates with high accuracy. Displayed results with bounding boxes and extracted text on images/videos.
- **Implementation**: Integrated YOLO for real-time detection. Employed OpenCV for image/video processing. Deployed the application using Streamlit for an interactive UI.
- **Impact**: Streamlined number plate recognition, enhancing efficiency in automated vehicle identification systems.

Emotion Detection Using CNN and Dataset
Tech Stack : Python,TensorFlow, Keras, ResNet50v2, VGG16, OpenCV, Gradio
- Addressed class imbalance with image augmentation and class weights to improve model robustness.
- Designed and iterated on custom CNN models, including VGG16 and ResNet50v2, achieving 66% overall accuracy on emotion classification. The final model, based on ResNet50v2, detailed precision, recall, and F1-scores across 7 emotion labels.
- Deployed the model for real-time emotion detection in live video streams using Gradio and OpenCV, dynamically showcasing emotion labels on-screen.
- Authored a comprehensive blog detailing the project's approach, challenges, and resolutions, and shared the source code on GitHub for community engagement.

E-KYC using Computer Vision.
- implementation of electronic Know Your Customer (E-KYC) processes using Computer Vision techniques.
- Verify identity documents efficiently And Extract the Data from the Document .
- Used Technology in the Project Are Opencv , SQLAlchemy, Streamlit etc.

SKILLS

Programming Languages: Python , Javascript
- Frameworks: TensorFlow, PyTorch, Scikit-learn ,Css, Bootstrap.
- NLP Tools: NLTK, SpaCy , Transformers.
- Large Language Models: GPT-3, BERT, LLama2 .
- Other Tools: Git, Docker, DVC .
- Open Source Platforms - Hugging face , Langchain .
- Soft Skills: Problem-solving, Team collaboration , Adaptability, communication skills

CERTIFICATES

Python , SQL , Machine learning , Deep Learning , NLP .
UDEMY

CSS, Bootstrap ,JavaScript, PHP Full Stack Crash Course
Udemy

React and Redux Certification
KG Coding