SANDEEP BHAJANTRI

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Objective

Aspiring AI Engineer passionate about building high-impact intelligent systems. Skilled in Deep Learning, NLP, and Computer Vision, with hands-on experience in deploying end-to-end AI solutions. Strong foundation in PyTorch, TensorFlow, Hugging Face, OpenCV, and full-stack deployment. Recognized for hackathon achievements and a drive to transform ideas into real-world AI applications.

Education

B.M.S. Institute of Technology and Management, Bengaluru
B.E. in AI & ML | CGPA: 7.0/10 | 2023 – 2027
Morarji Desai Residential Science PU College, Karnataka
PCMCs (PUC) | 83.17% | 2021 – 2023
Ave Maria High School, Karnataka
SSLC | 84.96% | 2021

Projects

1. Pack-Wise Processing for High-Resolution Media Enhancement
   - Designed an AI-driven pack-wise system for efficient high-resolution image & video processing.
   - Implemented media cleaning using DnCNN and artistic sketching with Pix2Pix (PyTorch).
   - Engineered media pipeline with OpenCV (splitting & recombination) and FFmpeg (video handling).
   - Improved processing speed and precision for large-scale visual data
2. AI-Powered Communication Threat Detection (Scam & Harassment)
   - Built an end-to-end NLP platform for detecting scams & harassment across audio calls and text.
   - Integrated OpenAI Whisper for speech-to-text, BERT (Hugging Face) for classification.
   - Achieved F1-scores of 0.85–0.89 across multi-class categories.
   - Deployed with Flask & FastAPI, frontend (Gradio &Flask), and data management using Firebase.
   - Enhanced user safety by enabling proactive threat detection for telecom providers.

Technical Skills

- Programming: Python, SQL
- Machine Learning: Supervised/Unsupervised Learning, Transfer Learning, Feature Engineering, Model Evaluation
- Deep Learning Frameworks: PyTorch, TensorFlow
- NLP & LLMs: BERT, Hugging Face Transformers, LangChain, RAG, Prompt Engineering
- Computer Vision: OpenCV, CNNs, GANs, Image Enhancement, Denoising
- Tools & Platforms: Flask, FastAPI, Gradio, Git, Docker (basic), Firebase,SQL, Google Colab, Jupyter, FFmpeg

Achievements

- Finalist – Hack2Future 2024 (IIIT Dharwad)
- Top 10 – NMAM Hackfest 2025
- Active participation in hackathons & AI innovation challenges

Extra-Curricular Activities

- Active participant in AI/ML communities, hackathons, and open-source contributions.
- Passionate about mentoring peers, exploring cutting-edge AI models, and building real-world prototypes.