Anto Jonith

anto289200 | anto-jonith | antojonith28@gmail.com | +91-7305499294

Career Objective

Motivated Computer Science student seeking to leverage technical expertise and problem-solving skills in software development. Aiming to contribute to innovative projects while expanding knowledge in emerging technologies through continuous learning.

Technical Skills

- **Languages**: Python, JavaScript, Java, C
- **Databases**: Firebase, SQL
- **ML Frameworks**: TensorFlow, PyTorch, Keras, OpenCV, Scikit-learn
- **Web Development**: Django
- **Soft Skills**: Problem Solving, Critical Thinking, Time Management, Adaptability
- **Specializations**: Machine Learning, Computer Vision, NLP, IoT Systems

Education

B.E. Computer Science and Engineering **2026**
KPR Institute of Engineering and Technology
HSLC - 85%
SSLC - 80%

Projects

Monocular Depth Estimation

- **Tech Stack**: PyTorch, MiDaS, U-Net, KITTI Dataset
  Implemented a monocular depth estimation model for 3D perception in autonomous systems. Evaluated using Absolute Relative Distance Error, with real-time depth visualization.

AI Avatar Generator

- **Tech Stack**: PyTorch, LoRA, LoRA-UNet, Stable Diffusion
  Built an AI-based avatar generator that creates personalized avatars from input images using fine-tuned LoRA and LoRA-UNet models. Enhanced image quality using adversarial training and style transfer techniques.

LLM Evaluation and Deployment for PubMed QA

- **Tech Stack**: Python, Llama-3.1-8b-instant, Mistral-Saba-24b, Groq API, ROUGE Metrics
  Evaluated Llama-3.1-8b-instant and Mistral-Saba-24b on PubMed QA, with Mistral-Saba-24b achieving higher ROUGE-1/2 scores. Suggested future improvements via fine-tuning, RAG

Real-Time License Plate Recognition

- **Tech Stack**: YOLOv8, OpenCV, TensorFlow Lite, Flask
  Engineered a computer vision pipeline processing 45 FPS on edge devices, with advanced preprocessing and a CRNN model for character recognition. Trained on 15,000+ images under varying conditions.

AI Sustainability Advisor

- **Tech Stack**: Python, GPT-3.5 Turbo, Groq API, LangChain
  Developed an AI-powered chatbot that provides energy-saving recommendations using NLP and smart home integration, achieving a 40% reduction in energy consumption insights.

Smart Crop Recommendation System

- **Tech Stack**: Python, TensorFlow, Django, Raspberry Pi, Arduino, IoT Sensors
  Developed an intelligent crop recommendation system integrating IoT sensor data with a machine learning model, achieving 89% accuracy. Designed an efficient irrigation advisory system based on real-time soil and environmental parameters.

Internships

AI/ML Intern | YBI Foundation Jul 2023 – Aug 2023

- Worked on optimizing ResNet-50 models by applying quantization and pruning techniques.
- Assisted in developing an automated MLOps pipeline using GitHub Actions.

Full Stack Developer | VantageFlow May 2023 – Jun 2023

- Contributed to the development of a dashboard system handling large-scale data using Django ORM.
- Implemented JWT authentication and improved API response times using Redis caching.

Achievements

- **Qualified**: Smart India Hackathon 2023
- **LeetCode**: Solved 200+ problems
- **Publication**: "Scalable and Secure IoT Network Architecture using SDN" at NIT Pondicherry.

Certifications

- Deep Learning Specialization - Coursera
- Python Programming - Udemy
- Data Structures & Algorithms - Udemy

Declarations

I hereby declare that all the information provided above is true and correct to the best of my knowledge.

- Anto Jonith