Pranay Policherla

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Summary

I am an aspiring software engineer with a robust background in machine learning, computer vision, and robotics. My technical foundation is built on a deep understanding of Python, TensorFlow, Keras, and OpenCV, which I have utilized in various software development projects. My expertise extends to solving complex technical problems and contributing innovative solutions in areas such as artificial intelligence and natural language processing. Although new to the professional workforce, I bring a fresh perspective and a strong commitment to collaborative software development. I am keen to apply my technical skills in a full-time role, aiming to enhance product development and drive innovation within the software engineering industry.

Education

VIT Chennai, B.Tech in Computer Science   Sept 2022 – present
- GPA: 8.56/10.0

Sri Chaitanya Junior College, 12th in MPC   Sept 2020 – Sept 2022
- Score: 97.7/100.0

Experience

AI/ML Trainee, SpectoV – Chennai, TN   Aug 2024 – Sept 2024
- Contributing to the development of innovative assistive technologies aimed at empowering individuals of all abilities, promoting inclusivity through AR/VR solutions.
- Participated in brainstorming sessions to generate creative ideas for new features and improvements in existing AR/VR tools.
- Collaborated with cross-functional teams to integrate user feedback, improving the overall user experience and functionality of the technology.

Marketing Member, ResourceX – VIT Chennai, TN   Jan 2024 – May 2024
- Spearheaded marketing initiatives within the club, significantly boosting member engagement and event participation.
- Collaborated with club members to develop and implement promotional campaigns that aligned with the club's goals and mission.

Projects

Automated Weather Classification Using Transfer Learning   Github
- Developed an image classification model leveraging transfer learning techniques to accurately categorize weather conditions based on visual data.
- Utilized pre-trained models (e.g., VGG16, ResNet) to enhance the efficiency and accuracy of the weather classification system, significantly reducing training time.
- Achieved high classification accuracy by fine-tuning the model and optimizing hyperparameters, demonstrating the effectiveness of transfer learning in real-world applications.
- Tools Used: Deep Learning,Transfer Learning,Tensorflow.

Coin counting and Classification using Tensorflow   Github
- Developed a machine learning model using TensorFlow to accurately count and classify different types of coins from images.
- Preprocessed a custom dataset of coin images, applying data augmentation techniques to improve model robustness.
- Achieved high accuracy in both classification and counting tasks, demonstrating the model's practical application in automated coin processing systems.
- Tools Used: Tensorflow Lite.

Certifications

Artificial Intelligence using Google TensorFlow Powered by Google Developers (Smartintenz and Google Developers)

Networking Basics (Cisco)

Certificate for the Completion of Python 3.4.3 Training (Spoken Tutorial)

Certificate for the Completion of cpp Training (Spoken Tutorial)

Technologies

Languages: Python,C++, C, Java, Objective-C, C#, HTML,CSS, JavaScript