R. Vikram Aditya

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Professional Summary

AI and Machine Learning Engineer with a B.E. in Artificial Intelligence and Machine Learning. Skilled in developing and integrating AI-driven solutions, including image colorization and intelligent tutoring systems. Proficient in Python, FastAPI, React, and deep learning frameworks like TensorFlow. Proven track record of increasing user engagement through generative AI tools. Strong programming expertise and a commitment to delivering scalable, efficient applications. Passionate about collaborating on innovative projects that address complex challenges using the latest AI/ML technologies.

Education

MVJ College of Engineering Bangalore, Karnataka

Bachelor of Engineering in Artificial Intelligence and Machine Learning *2020 – 2024*

CGPA: 7.48

Experience

Mavencart June 2023 - Aug 2023

Internship

- As part of the product development team, Contributed to back-end development in the successful completion of AI products, including a generative AI writer tool and a social media template generator.
- Received compressive training in the AI Generative Template Project, acquiring basic skills in designing and deploying AI-generated templates.
- Contributed to the successful development and launch of a generative AI writer tool, resulting in a 30% increase in user engagement.

Projects

Image Colorization | Python

- Developed a Python-based image colorization tool by integrating deep learning models, such as Generative Adversarial Networks (GANs) or Convolutional Neural Networks (CNNs).
- Developed a Python-based image colorization tool by integrating advanced deep learning models.
- https://github.com/vxkram/image-colorization

Face Mask Detection | Python | TensorFlow | OpenCV

- Developed a deep learning model using CNNs to detect whether a person is wearing a face mask from live video feed.
- Utilized TensorFlow and OpenCV to process images in real-time and classify them based on mask detection.
- Trained the model on a dataset of masked and unmasked faces, achieving high accuracy and efficiency in mask detection.
- Implemented the solution with OpenCV for live camera feed integration, enabling practical use in public spaces for safety measures.
- https://github.com/vxkram/face-mask-detection

Intelligent Tutoring System | Python | React | FastAPI

- Developed a web-based application for student engagement, utilizing adaptive UI and real-time feedback mechanisms.
- Using Python in the backend for data collection and processing of student test scores.
- Integrated React and Python using FastAPI for the request and response.
- Responsing and adaptive UI designed using Material-UI in react.
- https://github.com/vxkram/its

Technical Skills

Languages: Python, Java, C, C++, MySQL, JavaScript, HTML, CSS
Frameworks: React, Node.js, Material-UI, FastAPI, MongoDB, Django
Developer Tools: Jupyter Notebook, Git, VS Code, Visual Studio, PyCharm, IntelliJ
Libraries: pandas, NumPy, Matplotlib, PyTorch, StreamLit, BeautifulSoup