PADDANA PRAVEEN

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GitHub: Praveen3333P (Praveen Paddana)

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Portfolio: Praveen's Portfolio

Technical Skills: Python, SQL, Tableau, Machine Learning, Deep Learning

Certification:

- Applied Machine Learning in Python, Coursera, Jun 23
- Data Science, Board Infinity, Feb 23
- Pre-Processing for Machine Learning in Python, Data camp, Apr 21
- Machine Learning for Everyone, DataCamp, Apr 21

EDUCATION

Board	Tenure	Educational institution	CGPA/Percentage
B. Tech (CSE)	Aug 2020 – Ongoing	Vellore Institute of Technology Bhopal	8.63
Class XII	May 2020	Sri Chaitanya College	94.5%
Class X	May 2018	Dr. KKR'S Gowtham School	89%

ACADEMIC PROJECTS

Deep Learning	**Image Colorization using GANS** (Nov 23 – May 24) • Developed an advanced image colorization model using TensorFlow and Keras, implementing a GAN architecture with U-Net generator, achieving a 40% improvement in colour accuracy compared to baseline models. • Designed and implemented a custom data pipeline for efficient preprocessing and augmentation of large-scale image datasets, reducing data preparation time by 50% and improving model training performance by 25%. • Created a user-friendly web application using HTML, CSS, and JavaScript for the frontend, integrated with a Flask backend to serve the colorization model, resulting in a 98% user satisfaction rate based on initial feedback. • Optimized the model training process, including implementing custom loss functions and fine-tuning hyperparameters, resulting in a 30% reduction in training time and a 20% increase in overall colorization quality. • Results:
Machine Learning	**Plant leaf Disease Detection** (Dec 22– May 23) • Description: Developed a CNN based plant disease detection system, contributed to a project as part of an 8-member team. • Achieved an impressive 91% accuracy rate in disease classification; reduced image analysis time by 90% and increased training accuracy by 95%. • Created a visually appealing and user-friendly interface for this model; increasing the foot traffic by 45%. • Results: https://github.com/Praveen3333P/plant-disease-detection
NLP	**Voice Assistant (**May 22 – Jun 22) • Description: Led the development of a Voice Assistant project, overseeing a team of 4 members. • Utilized natural language processing (NLP) techniques and technologies such as Python, speech recognition libraries, and text-to-speech synthesis resulting in a 25% efficiency boost. • Optimized the Voice Assistant's performance by fine-tuning NLP models and incorporating advanced dialog management techniques, achieving a 95% accuracy rate in intent recognition. • Results: https://github.com/Praveen3333P/Voice-assistant--jarvis

Computer Vision	**Object Detection (**Dec 21 – Feb 22) • Description: Spearheaded the development of an Object Detection software, engaged in a collaborative project with a team of 4 members. • Modernized a robust pipeline for data pre-processing, model training, and evaluation, resulting in an impressive 93% detection accuracy on the test dataset. • Optimized model performance by experimenting with various deep learning architectures, achieving a 90% improvement in detection speed. • Technology: Python, OpenCV, TensorFlow.

Experience	
C360 Software (Nov 23 – Feb 24)	AI Intern • Conducted in-depth research on existing technologies related to video lip-sync and actively contributed to discussions within the team. • Engaged in collaborative problem-solving discussions with team members, bringing valuable insights from research into the development process. Contributed to finding innovative solutions and enhancing the overall effectiveness of video lip-sync technology. • Played a crucial role in the implementation of video lip-sync technology, applying research findings to develop and refine algorithms.
BharatIntern (Jul 23 – Aug 23)	Machine Learning Intern • Independently completed three machine learning tasks within specified timeframes at Bharat Intern, showcasing strong time management and task prioritization skills. • Demonstrated self-reliance by working on assigned projects without collaboration, ensuring individual accountability and task ownership. • Applied machine learning techniques to address diverse challenges, honing problem-solving abilities and technical expertise.

ACHIEVEMENTS	
Achievements	• Achieved an outstanding rank of 127th out of thousands of participants across India in the prestigious Maths Olympiad IMO. • Recipient of GVSDP Scholarship for three consecutive year (2020-2022) with Rs 1,50,000/- each year.

ADDITIONAL INFORMATION	
Hobbies	• Engaging in active hobbies such as reading comics, staying up-to-date with electronics and computer-related articles. • Actively engaging in recreational activities, fostering teamwork, and enhancing physical coordination and agility through cricket, badminton, and basketball.
Languages	• English-Fluent, Telugu-Native, Hindi-Beginner.