

PADDANA PRAVEEN

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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) <ul style="list-style-type: none">• 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) <ul style="list-style-type: none">• 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) <ul style="list-style-type: none">• 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) <ul style="list-style-type: none">• 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.
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Experience	
C360 Software (Nov 23 – Feb 24)	AI Intern <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• English-Fluent, Telugu-Native, Hindi-Beginner.