

MASAVARAPU APPALNAIDU

PROJECTS

Crop Disease Detection Android Application06/2023

- Led a team (6 members) in collecting images from multiple sources including from research sites and IEEE Data sources, followed by the Machine Learning workflow.
- Fine-tuned multiple deep learning pre-trained models, such as MobileNet, on collected images.
- Achieved around 90 % f1 score on average on all the models on different crops
- Deployed model into android application and validated on multiple sets of images

Drone Based Surveillance System (Smart India Hackathon 2023 Finals (Hardware Category))12/2023

- Engineered a system that utilizes radio signals and fingerprints for secure access in port areas.
- Employed Embedded Devices such as Raspberry Pi to execute Python scripts, facilitating access and database updates.
- Implemented Ariel Image Segmentation to accurately detect ships in the system, providing real-time reports to port authorities.

WORK EXPERIENCE

The Sparks Foundation

Data Science & Business Analytics Intern04/2023 – 05/2023

- Developed and optimized machine learning models such using Python packages like scikit-learn and pandas.
- Utilized BI tools such as PowerBI to analyze data, identify important patterns, and design visualization dashboards.

VOLUNTEERING ACTIVITIES AND EXTRACURRICULARS

Google Developer Student Clubs

AI-ML Lead08/2023 – present

- Led workshops on Machine Learning and Artificial Intelligence concepts such as Hyperparameter Optimization Techniques, CNN and Computer Vision

VIRTUAL EXPERIENCE PROGRAMS

Forage

KPMG AU Data Analytics Job Simulation09/2023

British Airways Data Science Job Simulation08/2023

PwC Switzerland Power BI Job Simulation08/2023

CONTACT

- Visakhapatnam, India
- +91 8688458134
- manaidu2001@gmail.com
- [linkedin.com/in/naidu970](https://www.linkedin.com/in/naidu970)
- github.com/naidu970
- [kaggle.com/manaidu](https://www.kaggle.com/manaidu)

SKILLS

Hard Skill:

- Coding
- Debugging
- Calculus
- Statistics and Probability
- Machine Learning
- Deep Learning
- Data Structures and Algorithms
- Computer Vision
- Data analysis
- Data Manipulation

Programming Languages:

- C
- Python
- C++
- SQL

Tools and Software:

- Git
- Visual Studio Code
- MATLAB
- Jupyter Notebook
- Power BI
- Tensorflow
- Linux
- Robotic Programming

EDUCATION

Gayatri Vidya Parishad College of Engineering
B.Tech in Mechanical Engineering (Robotics Specialization) (CGPA – 8.6)
Visakhapatnam - (2021-2025)

OTHER

- Completed 10+ competitions on kaggle
- Smart India Hackathon 2023 Finalist
- Matlab AI Virtual Internship
- DeepLearning.AI Tensorflow Professional Certification
- IBM Data Science Professional Certificate