


Kollepara Naga Sai Manoj Abhiram

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SUMMARY

Passionate and self-motivated B.Tech Computer Science graduate with an interest in IoT and knowledge of Machine Learning. I have hands-on experience in Python, Machine Learning, and other technical skills. I also have a good understanding of how technology can address real-life challenges. I work well in teams, stay energetic, and am always eager to learn more in tech. I'm excited to use my skills to solve problems and add value with modern technologies.

EDUCATION

Shiv Nadar University Chennai

B.Tech Computer Science and Engineering (CSE - Internet of Things)

Chennai, Tamil Nadu

Sept 2021 – Present

- **CGPA:** 7.79/10
- **Activities:** YRC member

Sree Vijaya Durga Junior College

XII

Rajahmundry, Andhra Pradesh

2019 – 2021

- **Percentage:** 89.8%

D.R KKR's Gowtham School

X

Rajahmundry, Andhra Pradesh

2019

- **GPA:** 9.3/10

EXPERIENCE

Unsway

Intern (Artificial Intelligence Club)

Remote

May 2024 – July 2024

- Worked as an Academic Intern, developing AI course content and assisting in course design.
- Contributed to creating intuitive and interactive AI learning experiences.
- Enhanced organizational efficiency by optimizing course development workflows.

TECHNICAL SKILLS

- **Proficient in:** Python, Flask, IoT, AWS, MySQL, Tableau, Artificial Intelligence, Machine Learning, Data Structures, Git.
- **Familiar With:** Java, TensorFlow, scikit-learn, Streamlit, MongoDB, OOPs, Computer Networks, Selenium.

PROJECTS

Pest Detection Application

- **Tech Stack:** Deep Learning, React, Inception Model, Flask, AWS-EC2, Selenium, Python
- Used Selenium to automate the collection of high-quality pest images from the BugGuide website, ensuring a diverse and representative dataset for model training.
- Created and labeled a custom image dataset, addressing the lack of publicly available pest detection datasets suitable for training.
- Applied preprocessing techniques such as image resizing, normalization, and data augmentation to improve generalization and model robustness.
- Built a deep learning model using a Convolutional Neural Network (CNN) based on the Inception architecture to classify pests with high accuracy.
- Deployed the trained model on a user-friendly web interface using Flask and React, allowing users to upload images and receive pest identification results in real time.
- Hosted the application on AWS EC2 and gained hands-on experience in full-stack deployment, data pipelines, and real-world application of ETL processes.

Crop Recommendation Using ML Model

- **Tech Stack:** Machine Learning, Streamlit, Python
- Developed a Smart Crop Recommendation System using machine learning for tailored crop suggestions.
- Collected and analyzed real-time data from IoT sensors to assess farm environment characteristics.
- Implemented machine learning algorithms such as Random Forest and Decision Trees for recommendation logic.
- Worked on sensor integration and IoT data handling, refining skills in data acquisition and ML application in agriculture.

Soil Moisture Test Using Arduino

- **Tech Stack:** IoT, Sensors, Arduino, Embedded C
- Designed an Arduino-based system for soil moisture monitoring to support efficient irrigation practices.
- Gained hands-on experience with sensor coding, calibration, and data acquisition using Arduino.
- Learned the integration of sensor technology into IoT systems and data visualization techniques for agricultural insights.

Doctor Appointment Booking Using Flask

- **Tech Stack:** Flask, MySQL
- Built a web application for scheduling and managing doctor appointments using the Flask framework.
- Implemented user authentication, session management, and a responsive frontend for improved user experience.
- Enhanced backend skills and learned about RESTful APIs, database integration, and secure web application practices.

CERTIFICATIONS

- Generative AI Fundamentals - Coursera
- Joy of Computing using Python - NPTEL
- Introduction to Artificial Intelligence - Infosys Springboard
- Introduction to Data Science - Infosys Springboard
- Data Mining - NPTEL

SOFT SKILLS

- Team Collaboration, Problem-Solving, Effective Communication, Adaptability

PERSONAL INTERESTS

- Engage in physical sports, especially cricket and badminton.
- Listening Songs and Podcasts.