Kollepara Naga Sai Manoj Abhiram

(+91) 9581682255 | manoj.abhi2889@gmail.com | in LinkedIn | ⌗ GitHub

EDUCATION

Shiv Nadar University Chennai   Chennai, Tamil Nadu
B.Tech Computer Science and Engineering (CSE - Internet of Things)   Sept 2021 – June 2025
- **CGPA:** 7.83/10
- **Activities:** YRC member

EXPERIENCE

Unsway   Remote
Intern (Artificial Intelligence Club)   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.

PROJECTS

Pest Detection Application
- **Tech Stack:** Deep Learning, React, Inception Model, Flask, AWS-EC2, Selenium, Python
- Automated the collection of high-quality pest images from BugGuide using Selenium, ensuring a diverse dataset.
- Created and labeled a custom image dataset due to the scarcity of publicly available pest detection datasets.
- Applied image preprocessing techniques like resizing, normalization, and data augmentation to enhance model performance.
- Trained a Convolutional Neural Network (CNN) using the Inception architecture for accurate pest classification.
- Deployed the model on a user-friendly Flask and React web app, enabling real-time image-based pest identification.
- Hosted the application on AWS EC2, gaining hands-on experience with full-stack deployment and data pipeline integration.

Automated Personal Finance Manager
- **Tech Stack:** MERN Stack (MongoDB, Express.js, React, Node.js), Python, Machine Learning
- Developed a full-stack personal finance platform that enables real-time income and expense tracking with automatic categorization.
- Implemented a machine learning model using Random Forest to forecast future expenses based on historical data.
- Designed and integrated a chatbot using NLP to provide users with real-time financial support and insights.
- Built interactive dashboards and visualizations to present spending trends, forecasts, and financial summaries.
- Integrated features like alerts, reminders, and multi-currency support to enhance user control and usability.
- Added a stock recommendation module that offers investment suggestions based on user data and risk profile.

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

TECHNICAL SKILLS

- **Programming Languages:** Python, Java
- **Frameworks/Tools:** Flask, React, Selenium, Git, AWS, Tableau
- **Databases:** MySQL, MongoDB
- **Core Concepts:** Internet of Things, Artificial Intelligence, Machine Learning, Data Structures, Object Oriented Programming, Computer Networks

SOFT SKILLS

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