Sanampalli PavanKalyan

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Professional Summary

Artificial Intelligence and Data Science graduate with a strong foundation in Python programming, machine learning, deep learning, and computer vision. Hands-on experience building AI solutions using TensorFlow, PyTorch, Scikit-learn, CNNs, transfer learning, and ResNet50, along with data preprocessing and model evaluation using Pandas and NumPy. Developed and deployed a computer vision application for plant disease classification using deep learning and Streamlit. Strong analytical and problem-solving skills with a focus on developing practical, data-driven AI solutions. Seeking an entry-level AI/ML Engineer role to apply machine learning and deep learning skills to real-world applications.

Technical Skills

Programming : Python, SQL, Java.
AI/ML : TensorFlow, PyTorch, Deep Learning, Scikit-learn, CNN, Transfer Learning, Computer Vision, Model Evaluation, Model Deployment (TFLite).
Data Science : Pandas, NumPy, Exploratory Data Analysis (EDA), Data Cleaning, Data Preprocessing.
Data Visualization : Matplotlib, Power BI, Tableau.
Frontend : HTML, CSS, JavaScript
Tools : Jupyter Notebook, Google Colab, VS Code, Git, GitHub.

Projects

Plant Disease Detection and Classification Using Deep Learning Dec 2025
Python, TensorFlow, ResNet50, CNN, FastAPI, TFLite, Streamlit

- Built an end-to-end plant disease classifier (38 classes, 70,000+ PlantVillage images) by fine-tuning ResNet50 with data augmentation, reaching 95% accuracy.
- Reduced model size by 70% with TFLite quantization for edge inference; deployed via a FastAPI backend with Streamlit and React interfaces and gathered feedback from 50+ agricultural stakeholders.
- Project Link : https://github.com/SanampalliPavanKalyan04/Plant-disease-detection.git

Citizen Connect Mar 2026
Python, JavaScript, React, Vite, Flask, REST APIs, PostgreSQL, Git

- Built Citizen Connect, a full-stack civic complaint platform (React, Flask, PostgreSQL) with role-based access for Citizens, Employees and Admins using JWT authentication.
- Implemented automatic routing to 21 departments with SLA deadlines, GPS/map location capture, duplicate detection, and escalation of reopened complaints to higher officers.
- Added admin analytics (charts, heatmap, CSV export), multilingual support (English/Telugu/Hindi) and PWA support, and deployed the app on Vercel with a Neon database.
- Project Link : https://github.com/SanampalliPavanKalyan04/citizen-connect

Internship Experience

Codec Technologies - Data Science Intern Aug 2025 – Oct 2025
Python, Pandas, NumPy, Matplotlib, Power BI, EDA, Data Cleaning

- Cleaned two years of daily e-commerce sales data using Python, Pandas and NumPy, tagging each date with its sale event across 8 major Indian sale seasons (Diwali, Big Billion Days, Black Friday).
- Performed EDA, Pareto and YoY analysis, finding that the top 10% of products drove 45% of revenue and festival periods caused clear demand spikes.
- Built interactive Power BI dashboards comparing each season's impact on revenue, discounts and returns.
- Enabled data-backed stock and promotion planning for high-revenue products ahead of peak sale events.
- Project Link : https://github.com/SanampalliPavanKalyan04/Festival-sales-dashboard

Education

Siddartha Institute of Science and Technology, Puttur, Andhra Pradesh Oct 2022 – May 2026
Bachelor of Technology in Computer Science Engineering (AI & Data Science) *CGPA: 8.2/10.0*

Certifications

- Fundamentals of Machine Learning and Artificial Intelligence – AWS Training
- Python for Data Analysis: Pandas & NumPy – Coursera
- Google AI Essentials – Coursera
- What is Generative AI – LinkedIn Learning
- Industry 4.0 & IIoT – NPTEL
- Claude 101 – Anthropic