

# Siddarth S Ankole

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## SKILLS

- Python
- Frontend(HTML&CSS)
- Backend (Python Flask)
- Machine learning

## EDUCATION

- AI&ML | PES Institute Of Technology And Management. *CGPA: 8.3*
- XII (Karnataka State Board) | Devika Comp PU College. *89%|2022*

## ACADEMIC PROJECTS

- **AgroVet Hub – AI-powered Animal Husbandry Assistant:**  
Developed an integrated web-based platform to support farmers and livestock owners by providing AI-powered solutions for cattle management and agricultural needs. The system includes a feed and water estimation tool based on animal type and region, a skin disease detection module using Convolutional Neural Networks (CNN). AI-driven chatbot to assist with cattle health and general queries. The platform empowers farmers to make data-driven decisions, improving livestock health and optimizing farm resources.
- **Sustainable Fertilizer Usage Optimizer for Higher Yield:**  
Developed a machine learning solution using Python to optimize fertilizer usage for higher crop yields while maintaining sustainability. Built an interactive web application with Streamlit to display fertilizer recommendations and yield predictions, allowing real-time insights for farmers.
- **Harmful Website Detection System Using Machine Learning:** Developed a machine learning-based web application to detect malicious and phishing websites by analyzing URL patterns and structural features. The system enhances cybersecurity by classifying websites as safe (0) or malicious (1) using supervised learning techniques.

➤ **AI-based Image to Caption and Hashtag Generator:**

Developed a web-based application to automatically generate image captions and hashtags using a combination of **BLIP (Bootstrapping Language-Image Pretraining)** and **Google Gemini API**. Implemented creative captions and relevant hashtags. Built the frontend interface with Streamlit, enabling users to upload images or select sample images for real-time processing. The system outputs AI-generated image descriptions, multiple caption suggestions, and social media hashtags. Used PyTorch for deep learning model inference, ensuring accurate and contextually relevant results.

## **HOBBIES**

- Cricket.
- Reading.
- Travelling