SIDDHARTH BASALE

AI/ ML Developer

Targeting **Machine Learning Engineer Intern** roles with an organization of high repute with a scope of improving knowledge and further career growth.

Contact

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in [Siddharth Basale](#)

Education

o **Bachelor of Engineering (B.E.) Computer Engineering(3rd year)**
Government College of Engineering and Research, Avasari, Pune;

Current CGPA:
- 1st year - **8.27**
- 2nd year – **8.67**

Technical Skills

o **Programming Languages:**
Python, R language, Java, C++

o **Frameworks:**
TensorFlow, Keras, Pytorch, scikit-learn, FastAPI, Flask, Django, React, Node.js

Core Competencies

Image Processing and Computer Vision

Machine Learning and Deep Learning

Neural Networks (CNNs, RCNNs, YOLO)

Generative A.I

Data Structures And Algorithms

Java

Artificial Neural Network

Docker

Personal Details

Date of Birth: January 06, 2004
Languages Known: English, Hindi, Marathi
Address: Pune, Maharashtra

SKILLS

- **Programming Languages**: Java, Python, C++, R

- **Machine Learning Techniques:** Regression, Classification, Random Forest, Neural Networks, Hierarchical Models

- **Image Processing:** Object Detection, Segmentation (YOLO, RCNN), Image Preprocessing, Feature Extraction

- **Computer Vision Tasks:** Object Detection, OCR (Optical Character Recognition), Bounding Box Annotations

- **Model Deployment:** Flask, FastAPI, Streamlit, Docker

Academic Projects

Book Spine Detection using YOLOv8

- Developed a model to detect and label book spines from images using the YOLOv8 framework, providing users with the ability to upload or capture a photo and receive bounding boxes along with the count of books.
- Deployed the model on Hugging Face for real-time use and shared the complete project code on GitHub.
- Utilized advanced computer vision techniques and deep learning for precise bounding box generation and real-time detection.
- [Hugging Face](#)
- [Github Repository](#)

Myntra Product Recommendation System

- Designed and developed a robust recommendation system leveraging a Myntra dataset to provide tailored product suggestions based on user queries.
- Leveraged TF-IDF and cosine similarity for accurate product matching based on user input.
- The system generates dynamic recommendations with product details, including name, color, description, price, and links.
- Incorporated advanced NLP preprocessing techniques, such as stopword removal and tokenization with NLTK, to enhance text processing accuracy.
- Built an interactive UI using Streamlit, enabling users to search for products effortlessly and receive detailed insights, including direct product links for seamless navigation.
- [Github Repository](#)
- [Streamlit](#)

AI-Powered Kung Fu Master using A3C Model

- Developed an intelligent agent that autonomously plays and conquers the classic Kung Fu Master game using the Asynchronous Advantage Actor-Critic (A3C) model.
- The AI efficiently manages multiple environments simultaneously, learning and adapting autonomously to achieve high scores without human intervention.
- Implemented using Python and PyTorch, the model navigates the game, making strategic decisions to enhance performance.
- Achieved a score of 2200 points in the game, demonstrating the effectiveness of reinforcement learning.
- [Github Repository](#)

Ultimate AI Chatbot using Google's Gemini Pro Model

- Developed an advanced AI-powered chatbot utilizing Google's Gemini Pro model for seamless speech recognition and natural language processing, allowing hands-free interaction.
- Integrated the Wikipedia API for easy web navigation and quick information retrieval, enhancing user experience.
- Implemented text-to-image generation using Hugging Face's Stability AI, enabling users to input text and receive stunning images.
- Developed image-to-text conversion features powered by the Gemini 1.5-Flash model, allowing users to upload images and receive descriptive text outputs.
- The project is open-source, allowing others to integrate the Gemini API and explore the chatbot's features.
- [Github Repository](#)

SSL Certificate Expiry Checker App

- Developed a user-friendly app to monitor the expiration dates of SSL certificates, ensuring websites remain secure and up-to-date.
- Allows users to add websites and instantly check SSL certificate statuses through an intuitive dashboard.
- Key features include instant SSL status checks, visual representation of certificate validity, and color-coded alerts for expiring certificates.
- Built using Python and Streamlit, with a focus on cybersecurity and web development best practices.
- [Github Repository](#)
- [Live Streamlit App](#)

POSITION OF RESPONSIBILITY

President- Hackathon Club | Government college of engineering, Pune
(*2024- Present)*
Organized hackathons, Internal Hackathons & conducted sessions for 300+ college students on Web Development related topics.