Hirvita Mandaviya

AI/ML Developer

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GitHub | Linkedin | Portfolio

EDUCATION

DR. SUBHASH UNIVERSITY   July 2022 - March 2025
Bachelors of Computer Application   Junagadh, Gujarat
CGPA: 9.77

M. M. G. BHUVA KANYA VIDHYA MANDIR   Jun 2021 - Jun 2022
Commerce HSC   Junagadh, Gujarat
Percentage: 94.28%

M. M. G. BHUVA KANYA VIDHYA MANDIR   Jun 2019 - Jun 2020
SSC   Junagadh, Gujarat
Percentage: 86.5%

EXPERIENCE

BLUEPIXEL TECHNOLOGIES LLP | AI/ML Trainee   Ahmedabad, Gujarat | Aug, 2024 – Jan 2025

- Gained hands-on experience with Python basics, SQL.
- Developed skills in deploying models and building applications using the Django framework.
- Learned Exploratory Data Analysis (EDA) and its various graphing techniques.
- Worked on object tracking, object detection, and model prediction tasks.
- Acquired skills in creating custom datasets with labeling using RoboFlow.
- Learned how to use models from Hugging Face for various tasks and implemented chat-with-PDF functionality.
- Learned to fine-tune models for specific tasks to improve performance.
- Gained experience in creating REST APIs
- Exploring Google AI Studio and learning how to use Gemini API Key for AI applications.
- Worked with face recognition libraries such as matplotlib, face_recognition, OpenCV, and DeepFace.

BLUEPIXEL TECHNOLOGIES LLP | AI/ML Developer   Ahmedabad, Gujarat | Feb 2025 – Present

- Gained hands-on experience with the FastAPI framework, implementing secure JWT Token verification for Authentication.
- Built a voice-to-text pipeline using Whisper model for accurate audio transcription.
- Developed text-to-speech functionality using Google's Text-to-Speech library.
- Explored and fine-tuned diffusion models; successfully fine-tuned Stable Diffusion using LoRA weights on a flower dataset for improved generation quality.
- Performed creative image transformation by converting original photos to Ghibli-style images using black-forest-labs/flux-1.dev with Ghibli-specific LoRA weights.
- Initiated learning and experimentation with LangGraph to design stateful, multi-step AI applications.

SKILLS

Programming Languages	Python, HTML, JavaScript, SQL
Libraries/Frameworks	Django, Bootstrap, Pandas, Numpy, NLTK, OpenCV, langchain, Tensorflow, PyTorch, Keras, Scikit-Learn, Matplotlib
Tools / Platforms	Git, VS Code, Jupyter Notebook, Kaggle, HuggingFace, colab, Google AI Studio, Lightning AI

Databases	MySQL, PostgreSQL, MongoDB, FAISS, CromaDB

PROJECTS / OPEN-SOURCE

PORTFOLIO | Link
HTML, CSS, JavaScript

- Developed a personal portfolio website with HTML, CSS, and JavaScript, highlighting my programming expertise and project portfolio.
- The website is designed with a clean, modern aesthetic and includes dynamic features for an engaging user experience.

MEDICAL RAG CHATBOT FOR HEART HEALTH | Link
LLM, Google Colab, Huggingface, Cromadb

- Developed a Medical Chatbot for heart health using the open-source BioMistral LLM model, providing users with personalized health insights and recommendations based on their inputs.

VEHICLE PLATE NUMBER DETECTION MODEL
YOLO, Roboflow for Dataset

- Built a YOLO-based model for real-time vehicle license plate detection.

PATHOLOGY PLUS
Django, Gemini API, NLP Model, MySQL

- Created a platform for users to upload pathology reports in PDF format for analysis.
- Utilized Gemini API to extract data from reports and preprocess it.
- Fine-tuned an NLP model for parameter name similarity to enhance analysis accuracy.
- Built a Django-based system to provide report analysis and insights to users.

CERTIFICATIONS

- TCS iON Career Edge - Young Professional - TCS iON
- Campus to Corporate - The Advice & Assist.
- SQL Intermediate - SoloLearn
- Workshop on Prompt Engineering of 3 Hours - LetsUpgrade
- Introduction to Generative AI studio - Simplilearn Skillup
- Python (Basic) - HackerRank
- Generative AI - GUVI Geek Networks, IITM Research Park
- INTRODUCTION TO IMAGE GENERATION - SimpliLearn | SkillUp