DHRUV VASAVA

AI ENGINEER

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EDUCATION:-

AURO University
Bachelor of Science in Information Technology
Specialization: Artificial Intelligence | 6th Semester (persuading)

LANGUAGES:-

English,hindi,Gujarati, Marathi

PROFILE:-

Aspiring AI and Machine Learning Engineer with a strong foundation in Deep Learning, Natural Language Processing, and Computer Vision. Experienced in building end-to-end AI systems, including self-trained models, custom model training, offline large language models, multi-modal AI pipelines, and web-based AI integration. Values clear communication, collaboration, and structured execution, works effectively under guidance while taking ownership of responsibilities, and brings a continuous learning mindset. Adaptable and deadline-driven, committed to delivering reliable, high-quality solutions, with a long-term goal of growing as an AI engineer and system designer.

HARD SKILLS:-

- Machine Learning
- Deep Learning
- Computer Vision
- NLP
- Custom Model Training (Self-Trained Models)
- Transformer Models
- Model Training and Evaluation
- Python
- C/C++ & DSA
- React.js/Node.js
- HTML5/CSS3/JS
- TensorFlow/PyTorch
- Flask/Django
- Java
- SQL
- Ethereum/Solidity/Smart Contracts

SOFT SKILLS:-

- Analytical Thinking
- Critical Thinking
- Problem Solving
- Clear Communication
- Team Collaboration

PROJECT EXPERIENCE:-

- **Insta Analytic**

AI-Based Image Analysis, Information Extraction & Classification System (Self-Trained Models)
Developed an AI-powered system for image analysis and information extraction using self-trained deep learning classification models. Designed and trained custom CNN architectures from scratch, handling dataset preparation, data labeling, preprocessing, augmentation, training, validation, and performance evaluation. Applied computer vision techniques for image understanding and feature extraction.

- **Tina AI**

Offline AI-Powered Coding Assistant
Designed and developed Tina AI, a self-created offline AI coding assistant using Ollama and the Qwen-3.4B large language model. Enabled offline code generation, debugging assistance, and explanation features with a focus on privacy, low latency, and developer productivity.

- **Computer Vision Project**

Object Detection & Classification System (Self-Trained Models)
Developed a computer vision system using self-trained deep learning models to detect humans, fans, and lights. Implemented CNN-based architectures, image preprocessing, and feature extraction techniques, and optimized models for improved accuracy and inference performance.

- **Fake News Detection System**

NLP-Based News Classification Application
Built an NLP-based fake news detection system using Transformer models (BERT, BART, and T5). Performed text preprocessing, tokenization, and evaluated model performance using standard classification metrics.

- **Web Development Projects**

R Anime – Developed an OTT-style anime streaming web platform, focusing on responsive UI and component-based frontend development using React, HTML, CSS, and JavaScript.
Fitness Tracker Web Application – Developed an interactive web application for tracking fitness-related data and user activity.
Technologia 2025 Event Website – Built the official college tech-fest website with event information and registration functionality using React and Node.js.

- **Multi-Modal AI Processing System**

Text, Image, Audio & Tabular Data Processing
Implemented an AI system capable of processing multiple data modalities including text summarization, image OCR, CSV data analysis, and audio transcription through a unified multi-modal pipeline.

- **SPEEDF Typing Practice Application**

Developed a Python-based typing practice application featuring words-per-minute calculation, accuracy tracking, difficulty levels, and progress monitoring.

- **DogChain**

Blockchain-Based Freelance Marketplace
Designed a decentralized freelance marketplace where clients create listings and freelancers submit task requests. Implemented smart-contract-based task lifecycle management and escrow-style payment handling using Ethereum and Solidity.

- **Core Computer Science Projects**

Library Management System: Java-based system implementing OOP principles and SQL for managing library operations.
Data Structures & Algorithms Programs: Multiple implementations of DSA concepts in C and C++ including sorting, searching, stacks, queues, trees, and graphs.

REFERENCE:-

Dr. Dhaval Thaker:- Assistant Professor
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