ARYAN ACHARYA

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PROFESSIONAL SUMMARY

AI Engineer with expertise in machine learning, computer vision, and NLP. Skilled in TensorFlow, PyTorch, OpenCV, and cloud services. Developed real-time AI solutions and scalable models for industry applications.

EDUCATION

B.TECH in Computer Engineering | Silver Oak University | 2021 - 2024
- Relevant Courses: AI, ML, Cloud Computing, Data Structures

Key Projects

1. AI-Code-Refactoring-Tool
GitHub: AI-Code-Refactoring-Tool
- Built an AI tool using NLP and TensorFlow to analyze and refactor codebases, reducing manual review.

2. Safety Detection System
GitHub: Safety Detection System
- Developed a YOLOv5-based real-time object detection system to monitor restricted areas, improving workplace safety.

3. Image Caption Generator
GitHub: Image Caption Generator
- Created a CNN-RNN deep learning model for generating descriptive image captions, showcasing multimodal AI expertise.

4. AI Story Generator
GitHub: AI Story Generator
- Developed an NLP-based tool for generating creative stories using GPT models, showcasing expertise in text generation.

5. AI Knowledge Agent for Internal Teams
- Built an internal RAG system trained on company docs (PDFs, Notion, Slack, Jira) using LlamaIndex, Weaviate & GPT-4.
➔ **Use case: Knowledge search, onboarding, support.**

6. Contract Intelligence Platform
- Automates clause extraction & risk detection from legal contracts using OCR, LangChain, Claude/GPT.
→ Use case: Legal & finance teams.

7. Codebase Understanding & Refactoring Agent
- Developed a system that answers structural questions about codebases using Code RAG & StarCoder.
➔ **Use case: Developer productivity.**

8.Multi-Modal CV RAG Agent
- Analyzed CCTV footage metadata + computer vision to answer event-based questions using YOLOv8 & GPT-4 Vision.
➔ **Use case: Smart surveillance.**

9.AI Financial Analyst Copilot
- Built an LLM pipeline to parse financial reports, raise red flags, and answer CFO-level queries using FinBERT & Pandas.
➔ **Use case: Finance and audit.**

Technical Skills

Programming Languages:
 Python, JavaScript, Java, C++

AI & ML Frameworks:
 TensorFlow, PyTorch, Keras, OpenCV, Scikit-learn, Hugging Face Transformers, YOLOv8, Segment Anything, Tesseract OCR

LLM & RAG Tooling:
 LangChain, LlamaIndex, LangGraph, AutoGen, CrewAI, GPT-4, Claude, Mistral, FinBERT, BioGPT

Algorithms:
 Supervised Learning, Unsupervised Learning, Neural Networks, Support Vector Machines (SVM), RAG (Retrieval-Augmented Generation), Multi-Agent Systems

VVector Databases & Embedding Stores:
FAISS, Weaviate, Chroma, OpenAI Embeddings, Supabase (pgvector)

Cloud & DevOps:
AWS, Azure, Google Cloud Platform (GCP), Docker, Kubernetes, Supabase

Backend Development:
 Flask, Django, FastAPI, Node.js

Data Visualization & Processing:
 Matplotlib, Seaborn, Pandas, Numpy

Automations:
APIs & Integrations: Microsoft Graph API, Google Workspace API, Outlook API, OpenAI API
Workflow Automation: Zapier, Make (Integromat), Power Automate
Email Automation: IMAP, SMTP, API-based email management
Calendar & Scheduling Automation: Outlook Calendar API, Google Calendar API, reminders setup
CRM Integration: HubSpot, Salesforce, or any CRM automation exposure
Document & Task Automation: Automating Office Suite (Word, Excel, PowerPoint) using Python & APIs

Other Tools & Libraries:
 PDF Parser, Prompt Engineering, OCR, OpenCV (CV Metadata Extraction), Arxiv/PubMed Integration

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Professional Experience

AI Intern

Innoventa Pvt. Ltd | Jan 2024 – Apr 2024
- Developed a safety detection system using YOLOv5, improving safety .
- Deployed scalable AI systems on AWS and GCP.

ML Intern

OpenXcell | Aug 2023 – Sep 2023
- Built predictive models, improving forecast accuracy.
- Created data dashboards with Matplotlib and Seaborn.

AI Engineer

The Techno Spire · Full-time Sep 2024 – Jun 2025

Skills:
- Python · FastAPI · LangChain · LlamaIndex · LangGraph · AutoGen · OpenAI · Claude · Mistral · CrewAI · RAG Systems · Vector Databases (FAISS, Weaviate, Chroma) · Prompt Engineering · GPT-4 Vision · Hugging Face · Tesseract OCR · YOLOv8 · OpenCV · BioGPT · FinBERT · Pandas · Numpy · PDF Parsing · Segment Anything · PyTorch · Docker · REST APIs · Multi-Agent Systems · NoSQL · Data Cleaning · LLMOps · CV/NLP/LLM Integration

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CERTIFICATIONS

- Google Solutions Architect - Associate
- TensorFlow Developer
- Coursera: Deep Learning Specialization

LANGUAGES

- English: Professional Proficiency
- Hindi: Native
- Gujarati: Native