

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

Other Tools & Libraries:

PDF Parser, Prompt Engineering, OCR, OpenCV (CV Metadata Extraction), Arxiv/PubMed Integration

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

CERTIFICATIONS

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

LANGUAGES

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