

ABHAY VAISHNAV

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SUMMARY

Full-Stack & AI Engineer building production-grade LLM applications, RAG pipelines, and computer-vision systems. Skilled in LangChain, RAGFlow, MCP server design, and end-to-end delivery across Python/FastAPI backends and modern frontends. Passionate about shipping intelligent, scalable products at the intersection of AI and real-time systems.

EDUCATION

Ganpat University, Gujarat, India

Aug 2022 – May 2026

Bachelor of Technology in Computer Engineering · CGPA: 7.55

EXPERIENCE

Bluexkye Software, Ahmedabad, India

Dec 2025 – Present

Full-Stack Developer & AI Engineer

16Score & Meta Ninja — In-house AI & Esports Products

Apr 2026 – Present

- Engineered a frontend LangChain integration and production chatbots with intent routing, session memory, and knowledge-base grounding for context-aware user support and in-app automation.
- Built retrieval-augmented generation (RAG) pipelines with RAGFlow for grounded, document-aware Q&A over internal knowledge bases.
- Designed and shipped an Email MCP (Model Context Protocol) server enabling AI agents to autonomously draft, send, and triage emails as tools.
- Built Python/FastAPI microservices integrating computer-vision models (YOLO + OCR) with tournament management workflows for real-time esports match scoring.

Ondewo — Austria-based Client Engagement

Dec 2025 – Mar 2026

- Delivered backend services for an AI conversational platform automating enterprise customer support and call-center operations.
- Implemented NLP pipelines for intent detection and entity extraction, and designed gRPC services with protobuf contracts for low-latency communication between AI and backend APIs.
- Integrated chatbot services with CRM platforms via REST APIs; built React admin dashboards for conversation-flow configuration and monitoring.

KEY PROJECTS

16Score — Real-Time Esports Match Statistics Platform

Python/FastAPI · YOLO · PaddleOCR · gRPC · Kafka · WebSocket

- Architected a live match-stats pipeline (OBS → capture → gRPC → YOLO + PaddleOCR → TMS) extracting real-time kill/death/assist stats from mobile battle-royale and MOBA streams (Free Fire, BGMI, MLBB).
- Designed a microservices backend (Next.js viewer, React+Vite TMS/ops-admin, FastAPI + internal gRPC, Kafka AI pipeline, WebSocket live push) and built a tier-based snake-draft fantasy tournament feature for BGMI.

Free Fire Killfeed Detection Pipeline

YOLOv12 · Computer Vision · ByteTrack · Perceptual Hashing

- Redesigned a failing killfeed detection pipeline (63%+ miss rate) by decoupling event detection from OCR — assigning monotonic sequence numbers at detection time, using perceptual-hash fingerprints for row identity/dedup, the Hungarian algorithm for burst assignment, and ByteTrack-style retention — sharply improving recall.
- Built a three-tier victim-name recovery fallback (OCR → fuzzy roster match → knock-history inference) via a deterministic state machine.

Screenshot Forensics — Tournament Anti-Cheat System

Image Forensics · ELA · PaddleOCR · Multi-Layer Fusion

- Built a multi-layer forensic tamper-detection system to catch cheaters editing kill/death/assist numbers in tournament screenshots — fusing camera-noise forensics, Error Level Analysis, glyph forensics, and OCR digit analysis into an evidence-fusion engine (L0–L6) that requires multi-layer consensus (≥ 2 signals) per verdict, cutting false positives.

TECHNICAL SKILLS

Languages Python, JavaScript, TypeScript, Java

AI / ML LLM, LangChain, RAGFlow, RAG Pipelines, MCP Server Design, NLP, Prompt Engineering, TensorFlow, PyTorch, YOLO, OCR

AI Tools Claude Code (Mastery) — agentic coding workflows, sub-agents, custom skills & MCP integrations

Backend Python/FastAPI, Spring Boot, REST APIs, gRPC, Protobuf, Microservices, Event-Driven Systems, Apache Kafka (Basic)

Frontend React, HTML5, CSS3, Tailwind CSS

Data & Infra PostgreSQL, MySQL, Redis, Docker, CI/CD, Git, Linux, Query Optimization

Testing JUnit, Pytest, Integration Testing · Clean Architecture

ACHIEVEMENTS & ACTIVITIES

- Winner (2024) & Runner-Up (2023) — Convergence Inter-College Technical Competition (Team: The Dominator); participant in national hackathons — GeeksforGeeks × Accenture (Hack the Future) and UIDAI (Aadhaar).