

# SHUBHAM BAID

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## SUMMARY

Quick-learning and highly adaptable AI Engineer with expertise in Applied AI, Computer Vision, and the latest Agentic AI workflows using LLMs. Proven track record of developing and optimizing AI solutions at scale, impacting safety, efficiency, and automation across industries.

## WORK EXPERIENCE

### Independent AI Consultant

**AI Engineer** (January 2025 – Present)

- Architecting advanced AI solutions, integrating multimodal LLMs and computer vision for real-world applications.
- Developing agentic workflow automation systems to streamline decision-making and operational efficiency.
- Implemented **Retrieval-Augmented Generation (RAG)** pipelines for AI-driven knowledge retrieval, reducing search latency.
- Designed optimized **caching mechanisms** for AI models, reducing API calls and enhancing response times.
- Built pipelines using **3D reconstruction models** such as **Gaussian splatting and monocular depth estimation**.

### Avathon

**Senior AI Engineer - Computer Vision** (May 2022 – January 2025)

Bengaluru, India

- Designed and deployed firearm detection and person re-identification software across **10+ schools, monitoring 600+ cameras**.
- Led AI-driven workplace safety solutions, deployed across **1,500 cameras in 30+ enterprises**.
- Optimized CV pipelines for ARM hardware, achieving **50% CPU and memory reduction** through NEON, VFP optimizations.
- Managed a team of AI Engineers, establishing best practices that accelerated development cycles.
- Developed a gamified annotation system that cut dataset preparation time by **40%**.

### Integration Wizards Solutions

**AI Engineer → Senior AI Engineer** (June 2021 – May 2022)

Bengaluru, India

- Developed **ALPR (Automated License Plate Recognition) systems**, deployed across thousands of cameras.
- Recognized as a **'Rising Star'** for high-impact AI solutions under tight deadlines.
- Designed and deployed **YOLO, EfficientNet, ResNet, Faster R-CNN, and Detectron2** models for large-scale compliance applications.

## EDUCATION

### REVA University

**B.Tech, Computer Science and Engineering** (Graduated: August 2021)

Bengaluru, India

- Awarded **Best Outgoing Student (2021)** for exceptional contributions.
- Founded and led the Hackathon Club, organizing **national-level hackathons** with 200+ participants.

## CERTIFICATIONS AND SKILLS

### Certifications

TensorFlow Certified Developer | Jetson AI Specialist | Intel Edge AI Specialist

#### Programming

Python, C++

#### AI/ML Expertise

Computer Vision, Deep Learning, Multimodal LLMs, Agentic AI

#### Frameworks/Libraries

OpenCV, TensorFlow, PyTorch, ONNX, TensorRT

#### Optimization & Deployment

Model Quantization, ARM (NEON, VFP), Edge AI, Docker, Linux, Caching Strategies

#### Advanced AI Techniques

Gaussian Splatting, Zero-shot Learning, ALPR, HSE Compliance AI, RAG, Monocular Depth Estimation, Business Intelligence Automation