

# Sarvagya Tayal

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## Experience

### Clavrit | AI/ML Engineer

Remote April 2024 – Present

#### Clavrcode

- Building **Clavrcode**, a Replit/V0-like AI coding assistant for end-to-end web/app generation and deployment through natural language prompts.
- Designed the system architecture and implemented core microservices, including the **Planner Agent**, **Controller Agent**, and **Developer Agent** Integrated pipeline using **gRPC** and **Kafka** with scalable **LangGraph** workflows
- Integrated **E2B** sandboxes and **MCP toolchain** to implement **real-time** code execution and debugging across isolated environments. Designed prompting workflows to reliably **generate** and **iterate** over **500+ lines of executable code** per interaction.

#### Motolens AI

- Optimized Computer Vision models for MotoLens using YOLOv5-based detection (helmet, license plate, tripling), and a Siamese model for best frame selection. Leading its deployment and integration with Django, Celery, and Redis for scalable, real-time video analytics.

#### Client-Side

- Conducted sentiment and theme analysis for SIRIS using a multilingual BERT model, achieving 78% accuracy to extract insights and improve decision-making.

### Ernst n Young | Analyst

Gurugram May 2023 – Sept 2023

- Enhanced Unilever India's forecasting precision by analyzing 10 years of data, identifying consumer behavior trends, and understanding market dynamics.

## Projects

### OCTO-AI Fitness App for Sedentary lifestyles [🔗](#)

- Built a real-time planning engine that tailors daily fitness and diet regimens to user inputs and performance history, boosting engagement and adherence.

### Banking 77 [🔗](#)

- Trained and fine-tuned a multiclass sequence classification model using bert-base-uncased and the Banking77 dataset, optimizing transformer-based NLP pipelines for intent-label mapping and domain-specific adaptations to enhance accuracy and scalability in banking customer service applications.

## Skills

**Frameworks & Libraries:** Tensorflow, Pytorch, keras, OpenCV, LangChain, LangGraph

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**Backend:** Docker & Kubernetes, gRPC, Kafka, Django, Celery, Redis

**Tech Stack:** Computer Vision, NLP, Transformers, LLMs, Generative AI

## Education

Jaypee Institute of Information Technology,  
DAV Public School,

B.Tech in Computer Science, Noida 62, India  
XII CBSE, Kota, India

May 2023

## Competition

### EY Techathon 3.0

Runner-Up

- Built a **Frontier AI + Web3** solution delivering personalized, high-impact business value at EY's Hackathon.