Saksham Goyal

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WORK EXPERIENCE

IOK Labs Inc (https://nutrichef.io/)   **Remote**
Senior Software Engineer - AI + Backend   *04/2021 - 08/2025*

- **NutriChef: AI Nutrition Platform**
  - Architected and developed NutriChef end-to-end, integrating Agentic AI workflows, backend systems, and full-stack mobile apps (Flutterflow), powering personalized nutrition and fitness solutions for thousands of users.
  - Designed modular, brand-customizable architecture supporting white-label rollouts for clients, including **Ryan Fernando** (50K+ users, 10K+ MAU), **Sustainable Secrets Academy**, and **Sweat & Tonic**, helping brands launch AI-coaching products without in-house tech teams.
  - Built and deployed GenAI-driven recommendation and tracking features such as "**Snap-to-Track**" and "**Write-to-Track**" enabling automated meal and workout logging.
  - Implemented real-time personalized diet and workout plan generation, integrating dietary preference analysis, blood report interpretation, and MarianaTek APIs.
  - Delivered scalable backend infrastructure supporting thousands of concurrent user sessions and seamless LLM-powered interactions.
  - Collaborated directly with product and brand teams to define features, optimize engagement flows, and increase user retention across platforms.

- **tinychef – Voice-Enabled Cooking & Recipe Platform**
  - Delivered LLM-powered features and core platform enhancements for the **Sanjeev Kapoor** Recipes App and Smart Recipes Alexa Skill, **tripling** engagement to 100K+ MAU and 500K+ monthly voice interactions.
  - Built advanced Search 2.0 and a Recipe Recommendation Engine, increasing user satisfaction by 30%.
  - Developed an in-house **ads platform** and internal CMS tools, streamlining content import, analytics, and campaign operations.
  - Partnered with teams from **ITC**, **Swastha Cookware**, **Yogify, etc** to build AI-powered campaign features improving personalization and brand engagement.
  - Led and mentored a cross-functional team of engineers and interns to deliver high-impact releases under tight timelines.

Nayan Technologies (https://nayan.co/)   **Remote**
Software Engineer - AI   *06/2020 - 02/2021*

- As part of the **Dubai Future Accelerators program**, developed and deployed an AI-powered traffic violation detection system for **Dubai Police**.
- Automated the retraining and deployment of Deep Learning models via a microservices-based architecture, **reducing developer effort by 70%**.
- Achieved **91% accuracy** in detecting Lane Occlusion with a trained **lane segmentation model** on live camera feeds..
- Improved **YOLOv4 model accuracy by 25%** through dataset optimization and retraining for our use cases.
- Developed an optimized **License Number Plate Recognition (LNPR)** system for both cloud and mobile deployment.
- Enhanced and debugged traffic violation generation logic, boosting detection **precision by 40%**.
- Worked closely with the **data operations team** to streamline dataset labeling, validation, and retraining workflows

Adventum Advanced Solutions   **Remote**
Research Intern (AI / Computer Vision)   *01/2020 - 05/2020*

- **Built** and **deployed** an AI-powered pipeline for **early Glaucoma** detection using **fundus** imaging, improving diagnostic accuracy and processing time.
- Trained and evaluated deep learning models for **semantic segmentation**, **anomaly detection**, and **disease classification** on medical image datasets.
- Applied transfer learning and ensemble modeling to enhance robustness of medical imaging predictions.
- Collaborated with healthcare specialists to validate results and optimize performance for real-world use.

EDUCATION

BML Munjal University **Gurugram, India**
*Bachelor of Technology - Computer Science - **CGPA**: 9.26 / 10* *2016 - 2020*

SKILLS

• AI-Driven Product Development • Backend Architecture • Multi-Agent Orchestration • Prompt Engineering • Scalable Pipelines
• Product-Focused Engineering • AI System Integration

TECHNOLOGIES

Languages / Frameworks: Python, Django, FastAPI, Flask, Flutterflow (low-code app dev).
AI / ML: OpenAI, Mistral, Llama, LangChain, LlamaIndex, FAISS, Pinecone, Hugging Face, AWS Bedrock, Azure AI, TensorFlow, Keras, PyTorch, Scikit-learn, Pandas, NumPy, OpenCV.
Infrastructure: AWS, GCP, Docker, Celery, Redis, ElasticSearch
Databases: PostgreSQL, DynamoDB, REST APIs
Tools: Git, CI/CD, Data Pipelines, Cloud Monitoring, Prompt Chaining