

# Gaurav Narlawar

gauravnarlawar0007@gmail.com

<https://gauravvvvvvvvv.github.io> | <https://github.com/gauravvvvvvvvv>

Nanded, Maharashtra, India

## TECHNICAL SKILLS

- **Languages:** Python, JavaScript, Kotlin, Java, C/C++, R
- **AI/ML:** PyTorch, Transformers, Hugging Face, LangChain, RLHF, Prompt Engineering, OCR, NLTK, RAG
- **Development:** Kotlin Multiplatform, React, Flask, Streamlit, HTML/CSS, REST APIs
- **DevOps & Cloud:** AWS, Docker, Kubernetes, Git, Linux, CI/CD Pipelines
- **Data & Analytics:** MongoDB, MySQL, Hadoop (HDFS, Hive), Power BI, Tableau

## PROFESSIONAL EXPERIENCE

- **Software Developer** Dec 2024 – Present  
Coastok – Sadhana Tracking Application for ISKCON
  - Developed Kotlin Multiplatform mobile app for Android, serving 5000+ daily users
  - Designed backend infrastructure for both user faced screens and admins
  - Implemented CI/CD pipelines and monitoring for seamless updates and uptime
  - Contributed to feature rollouts, bug fixes, and scale optimization in a live production app
- **Freelance AI Engineer** Oct 2024 – Present  
Remote – Multiple Companies
  - Led 50+ AI development and evaluation projects with focus on model debugging, output steering, and generative code analysis
  - Identified failure patterns in LLM code outputs and designed prompt-based interventions for quality improvements
  - Created instruction-following rubrics and tested prompt sets to improve model coherence, logic, and task accuracy
  - Contributed to RLHF cycles and alignment processes to improve LLM safety and reliability
- **AI Intern** Jun 2024 – Jul 2024  
IBM (via All Soft Solutions Pvt Ltd.)
  - Built predictive ML models for customer segmentation with improved classification performance
  - Developed sentiment analysis pipeline achieving 85% precision on real-world datasets
  - Created chatbot prototype using IBM Watson Assistant for customer support automation

## TECHNICAL PROJECTS

- **AI-Powered Web Scraper**
  - Designed resilient scraper with LLM-based parsing and semantic filtering
  - Integrated proxy rotation and CAPTCHA bypass for robust data acquisition

Stack: Python, Selenium, BeautifulSoup, Anti-Bot Systems
- **YOLOv5 Object Detection System**
  - Trained and deployed object detection model using the Pascal VOC dataset (18,000+ images)
  - Optimized inference pipeline using OpenCV with custom augmentation to achieve 70% mAP@0.5

Stack: PyTorch, OpenCV, Streamlit, Data Augmentation
- **Chronos – AI Assistant Platform (In Development)**
  - Architecting a voice-enabled LLM assistant with CLI/Web interfaces for intelligent automation
  - Implementing multi-modal pipelines and real-time task execution via LangChain and FastAPI

Stack: Python, React, LangChain, Transformers, Tailwind CSS

- **Narada AI – Scripture Chatbot (In Development)**

- Fine-tuning custom LLM on 400+ Hindu scriptures with Sanskrit transliteration support
- Built tokenizer modules and OCR layers for processing ancient scriptural texts

*Stack: Flask, Transformers, OCR, Custom Tokenizers, LangChain*

## OPEN SOURCE CONTRIBUTIONS

---

- **Balaram Font Transliteration Engine**

- Built Python tool for converting Balaram font to IAST Unicode format
- Enables integration of Sanskrit texts with modern NLP and web systems

- **BhaktiBeats – ISKCON Music App**

- Developed desktop music app for offline playback, favorites, and filtering
- Built using Electron + React with local storage and state management

## EDUCATION

---

- **B. Tech – Computer Science & Engineering**

Lovely Professional University, Punjab, India

*Sep 2022 – Jul 2026 (Expected)*

Relevant Coursework: Machine Learning, NLP, Mobile App Dev, System Design, Cloud Computing

## LEADERSHIP EXPERIENCE

---

- **President**

*2024 – Present*

Ethic Craft Club (ISKCON Youth), LPU

- Organized LPU's first Rathayatra at One India Fest with 2,000+ attendees
- Built and led a 15-member team, managing end-to-end planning and execution
- Fostered values-based student engagement through large-scale cultural events

## RESEARCH & PUBLICATIONS

---

- **AI-Powered E-Cloud Library System**

- Developed intelligent recommendation system using collaborative filtering and NLP for personalized book suggestions
- Implemented cloud-based architecture with automated cataloging and semantic search capabilities

- **Novel Interface Designs for Virtual Reality**

- Designed intuitive VR interaction paradigms focusing on gesture-based navigation and spatial computing
- Conducted user experience studies to optimize interface responsiveness and reduce motion sickness

## CERTIFICATIONS

---

- IBM Machine Learning Professional Certificate, 2024

## LANGUAGES

---

- English: Professional Working Proficiency
- Hindi: Native
- Marathi: Native

## ACHIEVEMENTS

---

- Curated a Sanskrit corpus from Gitapress, ISKCON archives, and other textual sources for LLM fine-tuning and evaluation
- Built custom CNNs from scratch in Python/Numpy to understand ML internals beyond frameworks
- Developed LLM evaluation scripts and rubrics for assessing instruction-following and coherence