

# Gauraangi Praakash

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AI/ML Engineer with production experience in LLM systems, computer vision, and full-stack deployment across AWS and GCP. Published researcher with hands-on work spanning multi-modal deep learning, agentic AI pipelines, and avatar synthesis at a live EdTech platform.

## EDUCATION

- **Amity University** Aug 2021 – Jun 2025  
*B.Tech (Computer Science and Engineering)* Lucknow, India
  - CGPA: 8.65

## EXPERIENCE

- **Creatium** Sep 2025 – Feb 2026  
*Engineer I (AI/ML & Full-Stack)* Lucknow, India
  - Architected a multi-LLM Math Solver API with SymPy tool-use, cutting latency from **30s to 6s** and achieving **86% accuracy** on a 160-problem eval set spanning calculus, algebra, and differential equations; deployed on AWS, load-tested at 50 concurrent requests.
  - Engineered **Build Your Activity** — an AI simulation builder that generates fully interactive, self-contained simulations from a user prompt; integrated end-to-end into the production Creatium platform with live preview and mobile/desktop support.
  - Owned **Make Your Avatar** end-to-end — webcam recorder with teleprompter, Azure Blob upload; deployed to GCP with auth and email notifications.
  - Spearheaded a Qatari Arabic translation agent via **XML prompt engineering** with RTL and diacritics handling; evaluated across multiple test sets, BCG linguist scored output **2× higher** than baseline on fluency and accuracy.
  - Modified UNet to reinject audio at all 4 decoder stages; trained 8 production avatars with EMA tuning, reducing lip-sync drift across P/M/B phonemes.
- **Indian Institute of Technology Kanpur (IIT), Kanpur** June 2024 – August 2024  
*Intern* Remote
  - Engineered a ResEmoteNet-based emotion classifier in TensorFlow under Prof. Arnab Bhattacharya, achieving **88% accuracy** on FER2013 via deep learning and multi-stage data augmentation.
  - Built and benchmarked a real-time inference pipeline for facial-expression analysis, optimized for low-latency frame processing in HCI applications.
- **YOKO Solutions** May 2024 – July 2024  
*AI Intern* Remote
  - Developed an NLP embedding-based bio-generation algorithm for real-time profile personalization on a matchmaking platform; iterated on model architecture to improve candidate-match relevance.

## PROJECTS

- **LyreBird: Language Learning Platform** <https://github.com/dinasquare/lyrebird>  
*Hackathon Project · Next.js, TypeScript, Three.js, Gemini API, Clerk*
  - Built an interactive 3D language tutor using React Three Fiber and a RAG pipeline over a custom knowledge base, delivering context-aware conversational learning with real-time response generation.
- **Emotion Recognition** [https://github.com/dinasquare/Emotion\\_Recognition](https://github.com/dinasquare/Emotion_Recognition)  
*Tools: Python, TensorFlow, Google Colab*
  - Deployed a ResEmoteNet facial emotion classifier on FER2013, achieving **88% accuracy** via custom architecture and multi-stage data augmentation in TensorFlow; built real-time inference pipeline benchmarked for low-latency HCI scenarios.

## PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- [J.1] Gauraangi Praakash, Dr Pooja Khanna. (2025). **Multimodal Emotion Recognition: A Tri-modal Approach Using Speech, Text, and Visual Cues for Enhanced Interaction Analysis**. *Journal of Information Systems Engineering and Management*, Vol. 10, Issue: 39s, pp. 654–663. DOI: 10.52783/jisem.v10i39s.7269
- [J.2] Gauraangi Praakash, Dr. Pooja Khanna. (2024). **A Comprehensive Analysis of Modern NLP Architectures: Bridging RNNs and Transformers for Enhanced Language Understanding**. *Nanotechnology Perceptions*, Vol. 20, Issue 13, pp. 1605–1616.

## SKILLS

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- **Languages:** Python, C++, Java, SQL, TypeScript
- **AI/ML:** TensorFlow, PyTorch, scikit-learn, NumPy, Pandas, Deep Learning, NLP, LLMs, Agentic AI, RAG, Computer Vision, Embeddings, Hugging Face
- **Web & Full-Stack:** Next.js, React, Node.js, FastAPI, Tailwind CSS, REST APIs
- **Cloud & DevOps:** AWS, GCP, Docker, Git, GitHub, Azure
- **Databases:** PostgreSQL, MongoDB, MySQL, Pinecone (Vector DB)

## OTHER INFORMATION

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- **Winner in Local Chatbot Category** *May 2024*  
*Hack to Crack 1.0 by Tensorflow User Group* [Link](#)
    - Built a Whisper-based agentic speech-to-text chatbot; won Local Chatbot Category among competing teams.
  - **Google:** [Google AI Essentials](#) *July 2025*
  - **ScrumAlliance:** [AI and Agility](#) *May 2024*
  - **CISCO:** [PCAP: Programming Essentials in Python](#) *June 2024*
  - **Prutor IITK:** [Python Basic to Advanced](#) *June 2022*
- Languages:** English (Proficient), Hindi (Mother Tongue) | **Interests:** Swimming, Gaming