

# Kashishkumar Patel



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## PROFESSIONAL PROFILE

Master's student in Computer Science (Germany), specializing in Intelligent Systems with expertise in Artificial Intelligence and Machine Learning. Experienced in multimodal and multi-view learning, deep learning (PyTorch, TensorFlow), and applied AI research. Currently applying skills through an internship at AICU and a thesis at DFKI, focusing on robust and uncertainty-aware fusion methods.

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## WORK EXPERIENCE

AICU

Heilbronn, Germany

**08.2025 – Present**

### Multimodal AI Intern

- Researched and implemented fusion techniques (Intermediate, Hybrid, Attention) for multimodal datasets using PyTorch & TensorFlow.
- Supported development of AI solutions with Hugging Face & scikit-learn for applied multimodal tasks.
- Built and optimized training/evaluation pipelines (Colab, Jupyter, Git), benchmarking accuracy, training time, and inference speed.

DFKI (German Research Center for Artificial Intelligence)

Kaiserslautern, Germany

**07.2025 – Present**

### Master Thesis Student

- Researching robustness of multi-view deep learning models for Earth Observation (Sentinel-1/2) with PyTorch & probabilistic modeling.
- Investigating impact of input noise on latent space using Gaussian logits & Information Bottleneck.
- Developing uncertainty-aware fusion methods to enhance model resilience and interpretability.

Dominant Infotech  
Surat, India

**12.2021 – 07.2022**

### Android Developer

- Designed, built, and maintained Android applications using Java/Kotlin and MVVM architecture.
  - Integrated APIs, managed local databases, and implemented user authentication.
  - Ensured app stability, usability, and performance through testing and debugging.
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## EDUCATION

Rheinland-Pfälzische Technische Universität  
Kaiserslautern-Landau  
Kaiserslautern,  
Germany

**10.2022 - Present**

### Master of Science in Computer Science

- Major Specialization: Intelligent Systems.
- Minor Specialization: Software Engineering.
- Research Seminar: Survey of Multi-Modal Generative AI Tools in Education and Creative Industries.

CGPIT, Uka Tarsadia  
University  
Bardoli, Gujarat, India  
06.2018 - 06.2022

## Bachelor of Technology in Computer Engineering

- CGPA: 9.08

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## PROJECTS

10.2024 – 04.2025

### Deep Multi-View Information Bottleneck

- Built and evaluated a multi-view fusion framework combining satellite, radar, and weather data (LFMC, Yield Cereals, PM2.5).
- Benchmarked 7 fusion techniques including  $\alpha$ -scheduled stochastic VAEs and deterministic baselines using PyTorch.
- Implemented per-view  $\sigma$  analysis to capture modality-specific uncertainty (8 views, stds 0.94–0.99).

10.2024 – 03.2025

### Fine-Tuning LLM for German–French Translation

- Fine-tuned FLAN-T5 with LoRA in Hugging Face Transformers, boosting BLEU score from 18.65  $\rightarrow$  20.80.
- Generated synthetic translation data with Groq API, improving dataset diversity without manual annotation.
- Designed experiments comparing three models to evaluate the effectiveness of synthetic augmentation for low-resource MT.

06.2021 - 01.2022

### Face Recognition Attendance System

- Built a real-time attendance system on Raspberry Pi using OpenCV & Python, achieving >90% accuracy.
- Integrated lightweight deep learning models to ensure robustness under variable lighting and real-world classroom scenarios.
- Reduced frame processing time by 30% via NumPy optimization and asynchronous image capture.

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## TECHNICAL SKILLS

**Programming Languages:** Java, Python, C/C++, SQL, HTML/CSS, JavaScript, PHP, JSON, Bootstrap, Bash / Shell scripting

**AI/ML Frameworks & Libraries:** TensorFlow, PyTorch, Hugging Face Transformers, scikit-learn, Keras, LoRA, NumPy, pandas, Matplotlib, Xarray, OpenCV, Plotly

**Web & App Development:** FastAPI, WordPress, Android Studio, Firebase Console, SQLite

**Developer Tools & Platforms:** Git, Jupyter Notebook, Google Colab, CI/CD (GitHub Actions, GitLab CI), MLOps (MLflow), Raspberry Pi, Postman, Groq API, Jira

**Methodologies and Best Practices:** Scrum, Kanban, Agile Development, Clean Code, SOLID Principles, Continuous Integration, Unit Testing (JUnit)

**Soft Skills:** Team Collaboration, Problem-Solving, Critical Thinking, Adaptability, Effective Communication, Leadership, Fast Learner

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## CERTIFICATIONS, LANGUAGES, INTERESTS

**Certifications:** AI For Everyone – DeepLearning.AI, AI Using Python to Access Web Data – University of Michigan, Python for Data Science – UpGrad, Introduction to Data Science – IBM Advance Your Skills in Deep Learning and Neural Networks- LinkedIn

**Languages:** English (C1), German (B1), Hindi (C2), Gujarati(Native)

**Interests:** Generative AI, Music, Reading books, Photography, Chess

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