Kashishkumar Patel

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PROFESSIONAL PROFILE

Master's student in Computer Science based in Germany, specializing in Intelligent Systems with a strong focus on Artificial Intelligence and Machine Learning. Currently applying skills through an internship at AICU and a thesis at DFKI, with strong interests in Multimodal AI and applied AI research.

WORK EXPERIENCE

AICU
Heilbronn, Germany
08.2025 – Present

Multimodal AI Intern

- Researched and implemented fusion techniques for multimodal datasets.
- Supported development of AI solutions for multimodal datasets.
- Built and optimized training/evaluation pipelines to improve workflow efficiency, and conducted efficiency comparisons across accuracy, training time, and inference speed.

DFKI (German Research Center for Artificial Intelligence)
Kaiserslautern, Germany
07.2025 – Present

Master Thesis Student

- Researching the robustness of multi-view deep learning models for Earth Observation.
- Investigating the impact of input noise on latent space using probabilistic modeling techniques.
- 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.

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

PROJECTS

10.2024 – 04.2025 **Deep Multi-View Information Bottleneck**

- Built and evaluated a multi-view framework for fusing satellite, radar, and weather data across LFMC, Yield Cereals, and PM2.5 datasets.
- Benchmarked 7 fusion techniques including α-scheduled stochastic VAEs and deterministic baselines to study uncertainty.
- Implemented per-view σ analysis to capture modality-specific uncertainty (8 views, stds ranging 0.94–0.99).

10.2024 – 03.2025 **Fine-Tuning LLM for German–French Translation**

- Fine-tuned FLAN-T5 with LoRA and synthetic data, improving BLEU score from 18.65 to 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 using Raspberry Pi and OpenCV with over 90% face recognition 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.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, HTML/CSS
Frameworks: TensorFlow, PyTorch, Hugging Face Transformers, scikit-learn, Keras, WordPress, FastAPI, LoRA Developer
Tools: Git, Google Colab, Raspberry Pi, Postman, Firebase Console, Android Studio, SQLite, Jupyter Notebook, Groq API
Libraries: NumPy, pandas, Matplotlib, Xarray, OpenCV

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
Languages: English (Fluent), German (Intermediate), Hindi (Native)
Interests: Generative AI, Music, Reading books, Photography, Chess