Kashishkumar Patel

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PROFILE

Early-career ML Engineer / Applied Researcher focused on multi-view & multimodal deep learning, uncertainty-aware fusion, and robustness evaluation. Master's thesis (grade 1.0) delivered a unified PyTorch benchmark across 7 fusion mechanisms, 2 Earth Observation datasets, and 434 test-time corruption experiments.

CORE SKILLS

PyTorch, TensorFlow/Keras, Hugging Face; EfficientNet/ResNet/DenseNet; probabilistic modeling & uncertainty; fusion (deterministic, stochastic, uncertainty-weighted); robustness testing (spatial occlusion, spectral dropout), metrics (macro-F1, balanced accuracy, AUDC); Git, Docker, MLflow/W&B, Linux, CI/CD, SLURM.

EXPERIENCE

Master Thesis Student (Grade 1.0) | DFKI / RPTU — Kaiserslautern *(07/2025 – 02/2026)*

- Built multi-view Sentinel-1/2 fusion models with EfficientNet-B4 (13-band optical) + ResNet50 (2-channel SAR) encoders.
- Implemented 7 fusion mechanisms incl. 4 uncertainty-weighted variants (inverse variance, learned transform, exponential decay, softmax weighting).
- Designed and executed a 434-run robustness grid (7 models × 2 datasets × 31 conditions) with test-time spatial occlusion and spectral dropout.
- Reached 98.07% overall accuracy (EuroSAT-SAR) and 72.43% balanced accuracy (CloudSEN12) on clean data; quantified clean-vs-robustness trade-offs via AUDC and latent-space analyses.

Multimodal AI Intern | AICU GmbH — Heilbronn *(08/2025 – 11/2025)*

- Built image+tabular fusion models for skin cancer classification; achieved 89.5% validation accuracy.
- Benchmarked early/late/hybrid fusion and attention/gating; delivered reproducible pipelines with MLflow/W&B and Git.

Android Developer | Dominant Infotech — Surat, India *(12/2021 – 07/2022)*

- Developed Android apps in Java/Kotlin (MVVM) with REST APIs and Firebase; improved reliability through debugging and tests.

SELECTED PROJECT

Fine-Tuning FLAN-T5 for German–French Translation | RPTU — — *(10/2024 – 03/2025)*

- Fine-tuned FLAN-T5 with LoRA; improved BLEU from 18.65 to 20.80 using synthetic augmentation and controlled comparisons.

EDUCATION

M.Sc. Computer Science (Intelligent Systems) — RPTU Kaiserslautern-Landau
10/2022 – 02/2026 | Thesis: Robustness Analysis of Multi-view Latent Representations Under Input Noise with Earth Observation Data | Grade: 1.0

B.Tech. Computer Engineering — CGPIT, Uka Tarsadia University
06/2018 – 06/2022 | CGPA: 9.08/10 | Languages: German (B1), English (C1), Hindi (C2), Gujarati (Native)