

HEET DALSANIA

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Research Interests

I am an undergraduate researcher interested in adapting large pre-trained foundation models to new domains **reliably and in real time**. My work centers on three themes: **label-efficient domain adaptation** (adapting vision-language models such as CLIP with very little labeled data, including **zero-shot learning**), **cost-engineered LLM systems**, and **cross-modal grounding** as a mechanism for truth-arbitration in generative AI. Application areas span biomedical imaging, computer vision, and AI-generated video detection.

Education

Arizona State University, Tempe, AZ **Aug 2025 – May 2029 (Expected)**
B.S. Computer Science, Barrett Honors College — GPA: 4.0/4.0 · Dean's List · Barrett Undergraduate Research Fellow

BASIS Peoria, Peoria, AZ **Aug 2021 – May 2025**
High School Diploma — GPA 4.65W / 3.92UW

Publications

- 1. Label-Efficient Chest X-ray Diagnosis via Partial CLIP Adaptation** *arXiv preprint 2025*
Heet Dalsania
[arXiv:2507.07254](#) · sole author · work from the ASU SCENE program (Prof. Jianming Liang).

Research Experience

Undergraduate Researcher · People and Robots Laboratory (PeRL), ASU **Jan 2026 – Present**
Advisor: Prof. Pooyan Fazli

Developing deep-learning methods to detect AI-generated video content; focus on computer vision and deep learning.

Barrett Undergraduate Research Fellow · Arizona State University **May 2025 – Dec 2025**
Advisor: Prof. Jianming Liang

Advanced deep learning for biomedical imaging and computer-aided diagnosis, pursuing state-of-the-art performance with limited labeled data.

Research Assistant · ASU SCENE Program **Sep 2024 – May 2025**
Advisor: Prof. Jianming Liang

Label-efficient chest X-ray diagnosis via partial CLIP adaptation for zero-/few-shot rare-disease detection; sole-authored resulting arXiv preprint.

Projects

Physiq — *Python, Computer Vision, ML*. AI fitness and body-analysis app using computer vision to assess posture and form from a live camera feed, generating personalized workout recommendations in real time.

Pulse — *JavaScript, NLP, Sentiment Analysis*. Stock-news intelligence platform with lexicon-based sentiment analysis for user watchlists, aggregating Yahoo Finance and Google News and ranking articles by relevance and conviction.

FADE — *Python, LLM, React*. Autonomous agent that generates weekly GitHub PR digests and analyzes its own execution trace, classifying steps as deterministic, rule-based, or AI-required to cut costs by up to 99.8%.

NBA MVP Predictor — *Python, Scikit-learn, Pandas*. ML model trained on NBA MVP data and player stats (1995–2024) to weigh each stat's contribution to MVP shares, achieving 90% accuracy.

Certifications

Google Cloud Professional Machine Learning Engineer · AWS Certified AI Practitioner · Oracle Cloud Generative AI Professional · Stanford / DeepLearning.AI Supervised Machine Learning · IBM Applied AI Professional Certificate

Technical Skills

Languages: Python, JavaScript, C/C++, SQL • **Frameworks:** PyTorch, TensorFlow, Scikit-learn, Pandas, Flask
Areas: Computer Vision, Deep Learning, NLP, CLIP, Few-Shot Learning, Generative AI • **Cloud:** AWS, Google Cloud, Oracle Cloud, IBM Watson