

## Sr Staff Engineer Machine Learning

### Company Information

- **Company:** CÔNG TY TNHH MOTOROLA SOLUTIONS VIETNAM R&D CENTER
- **Website:** [https://www.motorolasolutions.com/en\\_us.html](https://www.motorolasolutions.com/en_us.html)
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**Company Overview** Motorola Solutions is a global leader in public safety and enterprise security. Our Analytics & AI R&D Center in Vietnam is a strategic innovation hub, dedicated to advancing the frontiers of Video Intelligence. We are transitioning from traditional computer vision to an "AI-First" approach, leveraging Foundation Models to solve critical real-world challenges in public safety.

**Job Description** We are seeking a Senior AI Researcher to act as a technical beacon for our AI Engineering organization. In this high-impact role, you will lead the research strategy for Fine-Grained Visual Recognition and Data-Centric AI. You will not only design State-of-the-Art (SOTA) models but also pioneer the use of Generative AI and Agentic Workflows to revolutionize how we curate, mine, and synthesize training data. This role requires a balance of deep theoretical knowledge and pragmatic engineering. You will bridge the gap between academic research (CVPR, ICCV, ECCV) and production-grade solutions, driving the development of next-generation capabilities like semantic scene understanding and open-vocabulary search.

### Scope of Responsibilities/Expectations

- **Advanced Model Research:** Lead the R&D of high-performance models for Fine-Grained Visual Categorization (FGVC) and Hierarchical Classification, focusing on detecting complex object attributes and nuances in unconstrained environments.
- **Specific Knowledge/Skills:**
  - **Deep Learning Mastery:** Expert-level understanding of Deep Learning architectures, specifically Transformers (ViT, Swin), CNNs (EfficientNet, ResNet), and Object Detection/Segmentation frameworks.

- **Generative AI & Multi-modal:** Hands-on experience with Multimodal Foundation Models (CLIP, LLaVA, etc.) and Generative approaches (Diffusion Models, GANs) for data synthesis.
- **Data-Centric AI:** Proven track record in building automated data pipelines. Experience with Active Learning, Auto-labeling, or building "Agentic" systems for data curation is a critical differentiator.
- **Frameworks:** Proficiency in PyTorch (preferred) or TensorFlow, and strong programming skills in Python and C++.
- **Practical Implementation:** Strong ability to write clean, maintainable code and experience with MLOps practices (CI/CD for ML, Experiment Tracking).

### Basic Qualifications

- **Education:** Bachelor's Degree or higher in Computer Science, Artificial Intelligence, Computer Vision, Mathematics, or a related technical field.
- **Experience:**
  - 7+ years of relevant industry experience in Computer Vision and Machine Learning.
  - Proven track record of leading technical initiatives and successfully deploying AI models into commercial products (0-to-1 product lifecycle experience is highly preferred).
  - Demonstrated ability to lead and mentor technical teams in a fast-paced R&D environment through deep technical expertise and hands-on experimentation rather than people management.

### Contact:

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