Saeideh Mousavi

AI/ML Engineer with hands-on experience in VLMs

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Profile

AI Engineer with expertise in Vision-Language Models and large-model optimization. Experienced in fine-tuning, knowledge distillation, and cloud deployment using PyTorch, Docker, and AWS. Focused on creating reliable, domain-specific AI systems.

Education

MEng - AI Concentration, Electrical and Computer Engineering, Toronto Metropolitan University, Toronto
Project: An Investigation into Prompt Injection Attacks Against Medical Vision-Language Models

M.SC - Software Engineering, Azad University of Zanjan, Iran
Thesis: Improving the efficiency of Constraint Solvers in Software Testing using Deep Learning

B.SC - Software Engineering, University of Zanjan, Iran

Experience

Research Assistant: Trustworthy LLM-based Conversation Agents to Enhance Migrant Youth Mental Health (Toronto Metropolitan University) Project Link

Mentee: KaggleX BIPOC Mentorship Program (Cohort 3)

Data Quality Analyst: MTN-IRANCELL, Iran

Selected Projects

An Investigation into Prompt Injection Attacks Against Medical VLMs

Evaluating Safeguards against Prompt Injection on VLMs

Using GANs for super-resolution on Google Earth Engine data

Exploring the Use of Super Resolution Generative Adversarial Networks for Improving the Land Classification on Satellite Imagery

Implementation of Bengali.AI Speech Recognition: Kaggle Notebook Link

Competitions

Finalist - Bridging Divides Migration Data Challenge (Top 10 out of 300 team)
Developed GIS-based visualization pipeline for immigrant mental-health data insights

Kaggle Competition - Bengali.AI Speech Recognition
Built CNN-RNN hybrid model with audio augmentation achieving top-25% accuracy

Certification

KaggleX BIPOC Mentorship Program (Cohort 3)

Machine Learning on Google Cloud

Preparing for Google Cloud Certification: Machine Learning Engineer

Technical Skills

Programming Python, NumPy, Pandas

Framework: PyTorch, Transformers, Matplotlib

Tools: Gradio, Docker, AWS SageMaker, Git, LangChain

Specializations: Vision Language Models, Multimodal Learning, Trustworthy AI, Knowledge Distillation, Prompt Engineering