

Hands-on Training Workshop at Texas A&M - San Antonio

Building AI/ML-Driven Research Capacity at Texas A&M University–San Antonio An NSF ECR & CISE REP–Aligned Planning Workshop

Date: April 07, 2026.

Location: SciTech 264 (Computer Science), SciTech 228 (Biological Sciences).

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Agenda

Time (CT)	Morning Sessions
8:15 – 9:00 am	Registration- Coffee and refreshments Sci-Tech 258
9:00 – 9:15 am	Welcome and Introduction , COAS Dean, Dr Debra Feakes Focus on the role of ECR, CISE REP, and AI/ML in advancing TAMUSA's research mission.
9:15am-9:30am	ECR project overview: PI Dr. Izzat Alsmadi
9:30 – 12:00 pm Session 1: SciTech 264	Topic: <i>Accessing the TAMU HPRC Launch Computing Resource, Introduction to the JupyterLab interface, Python on HPC</i> <ul style="list-style-type: none"> - Accessing the TAMU HPRC Launch Computing Resource, Introduction to the JupyterLab interface, Python on HPC Trainer(s): Dr. Yuvaraj Munian, Dr. Srinivasan Murali Tech support: Joe Rasche
12:00 – 1:00 pm	Lunch- Sci Tech Room 258
Afternoon Sessions: Concurrent, please choose per your interest	
1:00pm -3:45pm Session 2A SciTech 228	Topic: <i>Applications of AI/ML in the Biological and Biomedical Sciences</i> <ul style="list-style-type: none"> - Protein Structure Prediction with AlphaFold 3, Genomic Variant Calling with Google's DeepVariant, Single-cell Omics Data Analysis with scvi-tools, Data Mining with BioBERT Trainer(s): Dr. Wesley Brashear Tech support: Joe Rasche
1:00pm -3:45pm Session 2B SciTech 264	Topic: <i>NLP and Large Language Models: A Hands-on Introduction with Transformers</i> <ul style="list-style-type: none"> - Tokenization, Converting text to numerical IDs, Generating embeddings with BERT, Sentiment analysis, Question answering Trainer(s): Dr. Zhenhua He Tech support: Joe Rasche
3:30 – 4:00 pm	Closing Remarks : Summary of key insights and commitments, and informal networking

Break sessions are available between 10am-10.30am and 2.30-2.45pm. All attendees are welcome to stop by SciTech 258 during these times for **Networking-Coffee and Refreshments**, if needed.