

Texas State University

# CENTER FOR ANALYTICS AND DATA SCIENCE

*An interdisciplinary hub for data-intensive research, education, and outreach.*

## Who We Are

We are a university-level center with faculty from every college. Our core affiliate faculty include methods experts in areas such as statistics, optimization, artificial intelligence and computing in addition to domain experts from agriculture, criminal justice, engineering, geography, and health, among others.

## What We Do

CADS enhances lives through cutting-edge analytics and data science research. We are a cross-disciplinary analytics and data science initiative. We foster collaboration among teams from diverse backgrounds to tackle intricate problems aimed at transforming lives, and improving data and AI literacy.



### Expand AI Initiative

Supports capacity-building projects and partnerships within the National AI Research Institutes ecosystem that help broaden participation in artificial intelligence research, education and workforce development.



### Education

Design and provide diverse, academic pathways for teaching and learning in data science and AI via training sessions, curriculum enhancements, and modules for students, faculty, and industry.



### Research

Supports research in core data science and analytics competencies as well as their interdisciplinary applications to solve societal, scientific, and business challenges.



### Outreach

Connects faculty and students with the larger data science community through industry collaborations, research seminars, and events.

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Center for Analytics  
and Data Science (TXST CADS)



TEXAS STATE  
CENTER FOR ANALYTICS AND DATA SCIENCE

## 2024 Success

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The Texas State University Center for Analytics and Data Science is a university-level center dedicated to interdisciplinary collaboration. With affiliated research faculty from every college at Texas State, we facilitate interdisciplinary teams to solve complex challenges and transform lives – starting with Texas. Your CADS support will help prepare the future workforce, enhance industry and higher education collaboration, and expand CADS' impact, paving the way for top-tier recognition in TXST's Run to R1.



### TXST Expand AI Initiative

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This initiative, supported by an NSF award, supports capacity-building for AI initiatives at Texas State.

- AI Summer Workshop
- HPC Summer Workshop
- Nine new online learning modules designed to create successful pathways to a degree, a certification, or even a fast-tracked career in high-demand industry.



### Research

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- Developing teams of interdisciplinary researchers to be more competitive for larger and more complex funding opportunities.
- Focusing on research areas such as agriculture, artificial intelligence, computing, health
- Advocate to improve the accessibility of AI research infrastructure with high-performance computing training programs and academic support.



### Education

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- Industry partnership for a 6-part, virtual AI Education Series, hosting ~150 student and faculty participants per session.
- Support the Bachelors Minor and MS Major in Data Analytics.
- Advocate for integration of AI and Analytics in curricula across campus.



### Outreach

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- Spring 2024, CADS is sponsoring the Latina STEMpreneurship workshop, the GenSTEM conference, and the 3rd Annual Data Analytics Showcase.

## Next Steps

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Supporting interdisciplinary research projects and providing more training opportunities for students and faculty.

