

# PRAGNASRI VELLANKI

## WORK EXPERIENCE

### Data Strategy Analyst

Dave and Busters, Dallas | June 2025 - Present

- **Lead strategic data initiatives end-to-end**, collaborating with **C-level executives** to define requirements, prioritize features, and deliver scalable, business-aligned AI and analytics solutions.
- Design and optimize **data pipelines** and **ML-driven analytical models** that enable data-driven decision-making across the organization.
- Build and deploy **agentic AI solutions** for international franchisees, driving intelligent automation and localized performance optimization.

### Research Assistant

University of Texas at Dallas, Dallas | June 2025 – September 2025

- **Led a research project on cognitive enhancement through virtual reality**, collaborating closely with the supervising professor.
- **Mentored graduate researchers**, providing guidance in experimental design, signal processing, and applied machine learning.
- Engineered **digital signal processing (DSP) pipelines** to analyze brainwave patterns and developed **AI models** that adaptively enhance user focus during cognitive training.

### Undergraduate Research Assistant

Human Centered Extended Reality Lab, Dallas | May 2024 – May 2025

- Developed a **Unity-based XR game** integrating **CNN, Seq2Seq, and MCMC models** to analyze concentration patterns and dynamically personalize gameplay.
- Improved **data accuracy by 30%** and **focus prediction precision by 25%**, enhancing user engagement through adaptive cognitive training.

## NOTABLE PROJECTS

### EcoLense

HackUTD | November 2024

- Won Best Beginner Hack Award - **North America's Largest Hackathon**.
- AI-powered app that analyzes office-spaces to detect damages and suggest eco-friendly solutions to reduce environmental impact.

### AllerEase

WEHack @UTD | April 2024

- **Placed 3<sup>rd</sup> overall** at WEHack UTD and received MLH recognition.
- Simplifies grocery shopping by helping users identify and avoid allergens in everyday products through image processing.

### FijiForecast360

UTD | May 2025

- Led development of a predictive model analyzing 100 years of weather, population, and economic data achieving over **80% forecast accuracy**.

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🏠 Dallas, TX

LINKDIN



WEBSITE



## EDUCATION

### B.S in Computer Science

University of Texas at Dallas

August 2023- May 2025

- GPA: 3.84/4.00
- Coursework: Machine Learning, Artificial Intelligence, Database Design, Operating Systems, Advanced Data Structures & Algorithms

## SKILLS

- **Programming Languages:** Python, Java, SQL, Swift, C/C++, HTML/CSS
- **Tools & Technologies:** Databricks, Power BI, AWS Cloud, Azure DevOps, Unity, Git, Linux, Machine Learning, Agentic AI, Statistics
- **Soft Skills:** C-Level Communication, Product Management, Cross-Functional Collaboration, Problem Solving, Research, Mentorship & Leadership

## LEADERSHIP

### Society of Women Engineer | UTD

May 2024 - Present

- VP of Community
- Industry Chair
- Industry Committee

### Ronnia Langston Foundation

May 2024 - Present

- Lead Coding Instructor

