

DAMIAN GALLEGOS

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🔄 [Most Recent Project](#)

🌐 [damiangallegos](#)



Technical Skills

Programming: Python, Keras, Tensorflow, Scikit Learn, PyTorch, Java, MySQL

Data & Visualization: Power BI, Seaborn, Matplotlib, Model Tuning, Distillation, Time Series

Computer Vision: Object Classification or Recognition, Segmentation, Tracking, OpenCV, Scikit, Pillow.

Natural Language Processing: NLP models, Text Classification, Information Retrieval, Q&A, Transformers

Artificial Intelligence: Graph-Search Algorithms, Informed and Uniformed Decision Making, Reinforcement Learning

Experience

Teaching Assistant - Database Management

August 2024 – Present

The University of Texas at EL Paso (UTEP)

El Paso, TX.

- Educate students on **MySQL**, database modeling & design.
- Facilitated **PHP** code base GUI's for database management & administration.

Data Science Intern

May 2024 – August 2024

North American Development Bank (NADB)

El Paso, TX.

- Created a **system** that analyzes climate, financial, and geographical data for **early project risk management**.
- Reported daily data effectively of **projects status** to team members using Python and Power Bi.
- Optimized internal data pipeline problems by a **%80** reduction time of **PMs data project compilation**.

Research Assistant - Water ML Modeling

January 2024 – August 2024

The University of Texas at El Paso

El Paso, TX.

- Developed a **deep learning model** to predict urban landscaping water consumption on semi-arid regions [[Link](#)].

Teaching Assistant - Data Structures and Algorithms

January 2023 – December 2023

The University of Texas at EL Paso (UTEP)

El Paso, TX.

- Provided guidance to students in **developing their coding skills** by using well-defined goals & objectives.
- Led two laboratory sections, ensuring **efficient coordination** and student engagement.

Test Engineer

December 2021 – August 2022

Foxconn (Microsoft's Project)

El Paso, TX.

- Developed code to **automate testing and failure analysis** of servers using Bash and Python.
- Troubleshooted hardware and software **failures on multi-purpose servers** through different testing steps.

Production Supervisor

May 2021 – December 2022

TECMA

El Paso, TX.

- Boosted production by **25%** through a data-driven approach, **agile methodologies**, and enhanced visual communication.

Education

Ph.D in Computer Science

Jan. 2025 - TBD

The University of Texas at El Paso (**UTEP**)

GPA: 4.0

M.S. in Data Science

Aug. 2022 – Dec. 2024

The University of Texas at El Paso (**UTEP**)

GPA: 3.72

B.S. in Materials Science

Aug. 2017 – May. 2021

Autonomous University of Juarez City (**UACJ**)

GPA: 3.88

Most Recent Publication

Gallegos, D.L., et.al (2025). Towards Estimating Water Consumption in Semi-arid Urban

Landscaping: A Machine Learning Approach., MICAI 2024. Lecture Notes in Computer Science, vol 15246.

Springer, Cham.[DOI: https://doi.org/10.1007/978-3-031-75540-8_1].