

# Daniel Cisneros

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## Profile

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Graduate student pursuing an M.S. in Statistics and Data Science with a strong foundation in Computer Science from the University of Central Florida. Passionate about applying data science, data analysis, and AI to solve complex problems. Proficient in Python, R, SQL, with hands-on experience in data manipulation, statistical modeling, machine learning, and visualizations, through academic coursework and practical problem experience.

## Education

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### Master of Science in Statistics and Data Science

University of Central Florida

12/2027

Orlando, FL

### Bachelor of Science in Computer Science

Minor: Mathematics

University of Central Florida

05/2022

Orlando, FL

### Google Data Analytics Professional Certificate

Google/Coursera

04/2025

Online

## Related Courses

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**Relevant Coursework:** Statistical Computing, Regression Analysis, Experimental Design, Advance Computer Processing for Statistical Data, Data Structures, Artificial Intelligence, Machine Learning, Design and Algorithm Analysis, Computer Vision and Advance Computer Vision, Advance Computer Architecture, Software Development, Operating Systems, Objective Oriented Programming, Security in Computing.

**Other Coursework:** Theoretical Statistics, Discrete Computational Structures, Numerical Analysis, Database Systems.

## Work Experience

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### Graduate Teaching Assistant

University of Central Florida

August 2025 – Present

- Assist faculty with course delivery by grading assignments and exams, holding office hours, and supporting students' academic progress. Developed strong communication, organization, and problem solving skills while contributing to an effective learning.

### Search Quality Rater

Welocalize

Aug. 2024 – Present

- Analyze and improve AI data by following specific rules and conventions and using strong research skills to evaluate search results, ensuring alignment with user intent and enhanced the overall online search engine experience by providing both subjective and objective ratings based on project guidelines

### Online Data Analyst

TELUS International AI-Data Solutions

May. 2024 – Dec. 2024

- I contributed to improving the quality of global digital maps through research and evaluation. Processed diverse data types (text, images, audio, video) on an AI training platform, verifying accuracy and relevance for maps, news, and audio while adhering to project guidelines.

## Projects

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**Simulated Swarm:** Contributed to create a swarm of drones that fly autonomously in a Gazebo virtual environment that recreates real world adversities with YOLOv5 and SLAM to perform search and object detection for a designated target with the help of artificial intelligence, machine learning, and computer vision. (**Sponsored by Lockheed Martin**)

**Energy Efficiency Regression:** Developed a full regression and machine learning analysis to predict heating and cooling loads using the UCI Energy Efficiency dataset. Performed EDA, diagnostics, Random Forest modeling ( $R^2 \approx 0.997$ ), and extracted actionable architectural insights on geometry and glazing impacts.

**Titanic Survival Prediction – Kaggle Competition:** Developed a survival prediction model for the Titanic dataset using Decision Tree and Random Forest algorithms in Python. Achieved a score of 85% after data cleaning, feature engineering, and exploratory analysis with pandas, scikit-learn, and visualization libraries.

**Handgun Object Detection:** Created a Python program that was trained with a dataset provided by the University of Granada research group that can detect and recognize handguns firearms in real-time video using one of the latest algorithms and state-of-the-art for object detection YOLOv8 obtaining an impressive 88% (mAP50) while a 71% in mAP50-95.

**SEEMing is Believing:** Contributed to creating a framework for guided image generation from image-text data using a Large Language Model (LLM) and Visual Language Model (VLM) which includes combining LLaVA, SEEM and Stable Diffusion models which can also be used to augment existing image datasets.

**Subset Compiler PL/0:** A compiler made with C language composed of a lexical analyzer, parser code generator that uses tokenization to read and parse instructions to be translated to object code, based on Pascal programming language as a subset.

**Recommended System:** A system that uses data in a frequency matrix to compute similarities and tokenization to suggest users' books and movies according to ratings and personal suggestions

## Computer Skills

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- **Languages:** Python, R, SQL, C, SAS, Julia, Java, JavaScript, PHP
- **Technologies:** VS Code, Jupiter Notebook, GitHub, Google Collab, Eclipse, React, Gazebo, ROS, Excel, Power Point
- **Operating Systems:** Windows, Mac, and Linux
- **Other:** jQuery, CSS, HTML, Microsoft Office

## Expertise

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### Hard Skills:

- **Advance Artificial Intelligence:** Completed a course during my career where was mainly focused on AI which includes uniformed search, informed search, game playing and adversarial search, expectimax search and utilities, Markov decision process, RL, probability, independent variable and Bayes' net, hidden Markov models and applications, particle filters, DQN, and tools (Python, NumPy, Keras/Tensorflow, Scikit-learn, Pytorch) which includes knowledge representation, fundamental concepts of machine learning, deep learning, applications in computer vision and natural language processing, neural networks, problem solving and algorithms.

- **Machine Learning:** Completed a course during my career mainly focused on ML which deeply reviews algorithms, supervised learning (Decision Trees, Rule-based Classification, Ensemble Learning, Bagging, Random Forest, Generative models, Naïve Bayesian, KNN, Nearest Neighbor, Logistic and Regular Regression, Hard/Soft margin, Non-linear SVM, Kernel Tricks, Boosting), unsupervised learning Clustering, Hierarchical, Density, K-means, Fuzzy Set/Logic/K-means), and reinforcement learning, matrix data (Content based and Collaboratory Filtering, LFM, Learning to Rank), deep learning, experimental design, evaluation metrics, applications, data preprocessing/cleaning, libraries (Pandas, Matplotlib, Seaborn, GGplot), models, and model selection. Python
- **Computer Vision:** Completed a course during my career mainly focused on CV which reviews imaging geometry, image filtering, camera models and coordinate transformations. Also focused on feature detection and extraction, neural networks for pattern recognition, edge detection, region and boundary segmentation, image classification, scene understanding, object detection, and optical flow covering classical and modern deep learning approaches. Python
- **Advance Computer Vision:** Completed a course during my career focused on the latest research in Computer Vision, which mainly covers Visual Language Models (VLM), Large Language Models (LLMs), Large Multimodal Models (LMMs) and foundational models such as CLIP, Grounding DINO, SAM, LLaVA, Video-LLaVA, Shikra, BLIP, OWLv2 and Video ChatGPT. Explored cutting-edge topics such as textually and visually prompted models, architectural styles for encoder, dual-encoder, encoder-encoder, adapted LLM. Replication of most recent paper's benchmarks, research, and improve baselines. Studied the impact of Deep Learning, Neural Networks on image and video classification, localization, and segmentation.

## Soft Skills

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### Soft Skills:

- Problem Solving
- Coding
- Programming languages
- Collaboration
- Computer Skills
- Communication
- Team Player
- Attention to Detailed

## Foreign Language

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- Fluent (Native) Spanish