

VALENTINA TORRES DA SILVA

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EDUCATION

Fairleigh Dickinson University

Bachelor of Science in Computer Science, Minor in Mathematics

Teaneck, New Jersey

Anticipated May 2026

TECHNICAL STACK

Programming Languages: Python, R, Java, JavaScript, Bash

Frameworks & Libraries: Scikit-Learn, TensorFlow, PyTorch, Next.js, TailwindCSS, FastAPI, Pandas, NumPy, Matplotlib, Seaborn

Databases & Cloud Platforms: AWS (SageMaker, Lambda, API Gateway, CloudWatch, S3), SQL, PostgreSQL (via Supabase)

Data Skills: NLP, Supervised Machine Learning (Regression & Classification), Retrieval-Augmented Generation (RAG), Tableau

Software Development/Testing: API Integration, Front-End Development with Next.js, Bash Scripting for Automation and Testing

Version Control, DevOps & CI/CD: Linux, VS Code, Cursor, GitHub Copilot, Git

Languages: English, Spanish, Portuguese

WORK EXPERIENCE

Women in Data Science (WiDS) Worldwide

Remote

Data Scientist

September 2025 - Present

- Developed an interactive data science notebook integrating CDC's Social Vulnerability Index via API to support the WiDS University Datathon x WatchDuty challenge, enabling real-time analysis of wildfire impact and contributing to a global competition.
- Engineered** a machine learning model and weather-data API pipeline to **accelerate** wildfire impact forecasting for the 2025 Global Datathon, **advancing** equitable disaster response and earning contributor recognition.
- Designed** a forthcoming workshop in Baghdad, Iraq to **mentor** young women on building end-to-end data science projects, **expanding** access to AI education in underrepresented regions.
- Conducting** active research for the 2026 WiDS Global and University Datathons to **evaluate** globally relevant datasets, including misinformation trends and water usage, **informing** challenge design for a diverse international demographic.

Fairleigh Dickinson University

Teaneck, New Jersey

Computer & Robotics Lab Assistant

August 2023 - Present

- Improved NAO humanoid AI robot task accuracy by configuring custom Python scripts for multi-step automation workflows.
- Solved 8+ technical issues and applied new AI and robotics methods to improve experiment speed and robot performance.
- Reduced support request resolution time by 30% by diagnosing and resolving software, hardware, and login issues for 50+ faculty and students weekly.

PROJECTS

[Long Run](#) | Battle of the Brains "Best Technology Solution" Winner | Team Leader

October 2024

- Secured 3rd place out of 30+ teams** by delivering a high-performance React.js + Next.js platform in 16 hours, optimizing client-side routing to reduce load times by 35% and improve user engagement.
- Led 3-member team to build a multi-page event platform with video, scheduling, and eco-materials features.

[RAG-Enabled AI-Powered Legal Contract Data Extraction](#) | FDU + RSG Media/ Rightsline

August 2024 - November 2024

- Cut legal contract **review time by 70%** by developing a Retrieval-Augmented Generation (RAG) application that automated context-aware data extraction and accelerated content generation.
- Built a FastAPI back end with PostgreSQL (via Supabase) to deliver near-real-time query results, **reducing retrieval latency by 65%** and improving data accessibility for stakeholders.
- Improved AI accuracy by 90% and delivery speed by 50% using OpenAI API, prompt engineering, and AI tools (Cursor).

[Detection of AI-Generated Social Bots on Twitter](#)

April 2025- May 2025

- Designed an end-to-end pipeline across classical ML, deep learning, and clustering: preprocessing (**English-tweet filtering** $\geq 70\%$, **normalization**), feature engineering (URL/hashtag/mention counts, profile signals, account age, friends-to-followers), scaling, and consistent splits (70/15/15 for DL; 80/20 for ML).
- Benchmarked KNN (0.86), Logistic Regression (0.87), SVM (0.87), Random Forest (0.86), Bi-LSTM (0.87), and PCA+KMeans clustering (0.88), confirming DL outperformed classical ML on precision/recall/F1 while clustering delivered the top accuracy without labels.

AWARDS

eBay Innovation Scholarship – \$5,000 | Mar 2024

- One of only 4 students selected out of hundreds for an essay demonstrating the measurable community impact of a completed technology project.