VALENTINA TORRES DA SILVA

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EDUCATION

Fairleigh Dickinson University   **Teaneck, New Jersey**
Bachelor of Science in Computer Science, Minor in Mathematics, **GPA: 3.96**   *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/Unsupervised Machine Learning, Retrieval-Augmented Generation (RAG), Ensemble Models, Tableau
Software Development/Testing: API Integration, Model Validation/Deployment, Performance Benchmarks
Version Control, DevOps & CI/CD: Docker, Linux, VS Code, Cursor, GitHub Copilot**,** Git
Languages: English, Spanish, Portuguese

WORK EXPERIENCE

Fairleigh Dickinson University   **Teaneck, New Jersey**
Researcher   *December 2025 - Present*
- Developing a Landsat–VIIRS pipeline to estimate sub-pixel water fractions and retain narrow-river features in satellite imagery.
- **Training** multispectral models to distinguish open from ice-covered river water for climate-driven hydrologic monitoring.

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 WiDS.
- **Engineered and launched** the [2026 WiDS Global Datathon](#) on wildfire risk, developing survival-analysis targets and robust evaluation metrics to support equitable, decision-relevant disaster response modeling.
- **Designed and led** a [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 2027 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.

PROJECTS

[Long Run](#) | *Battle of the Brains "Best Technology Solution" Winner | Team Leader*   *October 2024*
- **Secured 3rd place out of 20+ 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.

[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 ≥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.

COMPETITIONS & DATATHON

Bryan Muñoz**,** María Cruz, **Valentina Torres da Silva**, Yao Yan, Gabe Schine, WiDS Worldwide, and WatchDuty . WiDS Global Datathon 2026. https://kaggle.com/competitions/WiDSWorldWide_GlobalDathon26, 2026. Kaggle.

AWARDS

eBay Innovation Scholarship – $5,000 | Mar 2024