Manuel Rodriguez Berdud

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Education

BS Mathematics and Physics, CONCORDIA UNIVERSITY, NEBRASKA

Aug 2021 - May 2025

- GPA: 3.89/4.0 | Academic All-American award 2024, 2025 | NAIA Athletic Scholarships Tennis & Soccer
- Related Coursework: Advanced Statistics, Diff. Equations, Linear Algebra, Real Analysis, Comp. Physics

MS Data Science, FLORIDA POLYTECHNIC UNIVERSITY

Aug 2025 – May 2027

- Society of Hispanic Professional Engineers (SHPE) Member
- Related Coursework: Comp. Data Analysis, Data & Text Mining, Essential of Data Science with Programming

Experience

Graduate Research Assistant, Florida Polytechnic University – Lakeland, FL

Aug 2025 - Present

- Conduct literature reviews, collect and analyze data, and support the development of research methodologies
- Assist in preparing manuscripts, reports, and presentations to **communicate** research findings effectively
- Collaborate closely with faculty and research teams, contributing to the planning and execution of 3+ projects

Tech Intern, ViewNext (IBM subsidiary) - Madrid, Spain

May 2024 – Jul 2024

- Developed and tested software solutions while collaborating with senior engineers to ensure product quality
- Generated and refined code using GenAI tools, improving accuracy and reducing manual workload
- Applied Java programming skills to support development tasks and optimize application performance

Projects

Computational Data Analysis Project – ML Model Predicting Tennis Match Upsets

Aug 2025 - Present

- Collected and cleaned ATP match data using Python (pandas, NumPy) for exploratory analysis
- Engineered features and built classification models with scikit-learn and XGBoost
- Applied EDA, data visualization (Matplotlib, Seaborn), and cross-validation to assess model performance

Data Mining Group Project – NYC Crime Patterns and Safety-Aware Travel Advices

Aug 2025 - Present

- Processed NYC crime and event data with SQL and Apache Spark for large-scale analysis
- Applied **text mining** and **clustering** to identify event-related crime patterns
- Built interactive maps using Folium, GeoPandas, and Plotly for spatial visualization

Tennis Simulation Project – Excel-Based Probability Model

Apr 2024 - May 2024

- Modeled point-by-point and game-level probabilities to simulate realistic tennis scenarios
- Used Excel formulas, logic functions, and data visualization tools to track and interpret match results

Skills

Programming Languages: Python, R, LaTeX, Java, SQL | **Data Science Tools**: NumPy, Jupyter Notebook, pandas, PyTorch, scikit-learn | **Data Analysis & Visualization**: Excel, Matplotlib, Seaborn, Plotly, GeoPandas | **Software Development**: Git/GitHub, Postman, Swagger, API Testing | **Languages**: Spanish (native) – English (fluent)

Leadership Experiences

Dining Service Supervisor, Chartwells – Seward, NE

May 2021 - Aug 2025

• Supervised a team of 6+ employees during daily dining operations

Tennis Coach, Weils Tennis Academy – Ojai, CA

Jun 2025 - Aug 2025

• Coached 15+ tennis players, leading to better performance in tournaments