

# Manuel Rodriguez Berdud

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## Education

<b>MS Data Science</b> , FLORIDA POLYTECHNIC UNIVERSITY	Aug 2025 – May 2027
• <b>GPA:</b> 4.0/4.0   <b>Society of Hispanic Professional Engineers</b> (SHPE) Member	
• <b>Related Coursework:</b> Comp. Data Analysis, Data & Text Mining, Essential of Data Science with Programming	
<b>BS Mathematics and Physics</b> , CONCORDIA UNIVERSITY NEBRASKA	Aug 2021 – May 2025
• <b>GPA:</b> 3.89/4.0   <b>Academic All-American award</b> – 2024, 2025   <b>NAIA Athletic Scholarships</b> – Tennis & Soccer	
• <b>Related Coursework:</b> Advanced Statistics, Diff. Equations, Linear Algebra, Real Analysis, Comp. Physics	

## Experience

<b>Graduate Research Assistant</b> , Florida Polytechnic University – Lakeland, FL	Aug 2025 – Present
• Conduct literature reviews, <b>collect and analyze data</b> , and support the development of research methodologies	
• Assist in preparing manuscripts, reports, and presentations to <b>communicate</b> research findings effectively	
• Collaborate closely with faculty and research teams, contributing to the <b>planning</b> and <b>execution</b> of 3+ projects	
<b>Tech Intern</b> , 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 <b>GenAI tools</b> , improving accuracy and reducing manual workload	
• Applied <b>Java programming skills</b> to support development tasks and optimize application performance	

## Projects

<b>Computational Data Analysis Project</b> – ML Model Predicting Tennis Match Upsets	Aug 2025 – Dec 2025
• Collected and cleaned ATP match data using <b>Python</b> ( <b>pandas</b> , <b>NumPy</b> ) for exploratory analysis	
• Engineered features and built classification models with <b>scikit-learn</b> and <b>XGBoost</b>	
• Implemented EDA, data visualization ( <b>Matplotlib</b> , <b>Seaborn</b> ), and cross-validation to assess model performance	
<b>Data Mining Group Project</b> – NYC Crime Patterns and Safety-Aware Travel Advices	Aug 2025 – Dec 2025
• Processed NYC crime and event data with <b>SQL</b> and <b>Apache Spark</b> for large-scale analysis	
• Applied <b>text mining</b> and <b>clustering</b> to identify event-related crime patterns	
• Built interactive maps using <b>Folium</b> , <b>GeoPandas</b> , and <b>Plotly</b> for spatial visualization	
<b>Tennis Simulation Project</b> – Excel-Based Probability Model	Apr 2024 – May 2024
• Modeled point-by-point and game-level <b>probabilities</b> to simulate realistic tennis scenarios	
• Used <b>Excel formulas</b> , <b>logic functions</b> , and <b>data visualization</b> 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

<b>Dining Service Supervisor</b> , Chartwells – Seward, NE	Oct 2021 – May 2025
• Supervised a team of 6+ employees during daily dining operations	
<b>Tennis Coach</b> , Weils Tennis Academy – Ojai, CA	Jun 2025 – Aug 2025
• Coached and mentored 15+ tennis players, leading to better performance in tournaments	