Andres Rodriguez

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PROFESSIONAL SUMMARY

Data analytics professional with proven experience at Johnson & Johnson and Prelude Solutions in predictive modeling, Power BI dashboards, and reporting automation. Skilled in Python, SQL, R, and Excel with demonstrated ability to translate complex analyses into actionable business recommendations. Leverages AI tools strategically while maintaining rigorous validation standards.

EDUCATION

La Salle University, Philadelphia, PA   Expected May 2026
B.S. Computer Science, Business Systems and Analytics | GPA: 3.91/4.0
- Founders Scholarship | Dean's List | Atlantic 10 Honors Roll | BGS Business Excellence Society

PROFESSIONAL EXPERIENCE

Johnson & Johnson, Horsham, PA   May 2025 – Aug 2025
Data Science Intern
- Engineered model-ready datasets using Python (pandas, NumPy) by cleaning, joining, and validating cross-team data with feature engineering, improving reliability for regulatory planning and reporting.
- Built and evaluated regression/classification models (scikit-learn) to estimate regulatory submission complexity ($R^2 \approx 0.85$), surfacing key drivers used to support resource allocation.
- Developed Power BI forecasting dashboards with scenario modeling to plan submission deadlines months in advance using team availability constraints, supporting work allocation without exceeding capacity.

Prelude Solutions, Philadelphia, PA   May 2024 – Aug 2024
Project Management Intern
- Led CRM/workflow migration from Excel to Monday.com for 4+ teams and 10+ stakeholders by clarifying requirements, standardizing processes, and coordinating rollout to improve adoption and data consistency.
- Reduced manual reporting by designing a normalized database and implementing automated reporting workflows with QA checks for financial and conversion analytics, improving reliability for leadership-facing decisions.

La Salle University, Philadelphia, PA   Aug 2022 – Present
Resident Assistant
- Serve as primary liaison for 50–80 residents, documenting cases and coordinating with university offices to ensure timely issue resolution.
- Doubled event attendance by analyzing engagement patterns and optimizing programming strategy, budgeting, and resource allocation.

PROJECTS

Crowd Evacuation Modeling with Machine Learning – Research
- Built multi-source dataset integrating literature-derived variables with structured data to quantify drivers of evacuation efficiency.
- Trained and benchmarked ML models (KNN, Decision Trees, XGBoost, Neural Networks) in Python/R, comparing metrics across scenarios to support evidence-based conclusions.

Automated Job Intelligence System
- Engineered full-stack Python application scraping 2,000+ daily job postings from 10+ companies via custom REST API adapters (Oracle HCM, Workday, Eightfold AI) with SQLite storage, intelligent deduplication, and keyword matching – reducing manual search time by 95%.
- Built Flask web interface with real-time filtering, application tracking, and automated daily scheduling (launchd), leveraging AI-assisted development (Claude LLM) for rapid debugging and adaptive scraping across diverse platforms.

LEADERSHIP & ACTIVITIES

Co-President/Founder, Business Systems & Analytics Club   Aug 2022 – Present
- Grew participation from 0 to 50+ students through targeted outreach and event marketing; coordinated industry events with SAP, Stanford, and the Phillies, managing budgets and logistics.

Division I Student-Athlete, Men's Soccer   Aug 2021 – Present
- Balance 20+ hours weekly of training and competition while maintaining 3.91 GPA and serving as mentor to underclassmen.

TECHNICAL SKILLS

Languages: Python (pandas, scikit-learn, NumPy, BeautifulSoup, Flask), SQL, R, Java, .NET, JavaScript, HTML/CSS
Data & Visualization: Power BI (DAX), Tableau, Excel (Forecasting, Solver, VBA, Pivot Tables), SQLite, Git, Jupyter
ML & Development: Regression, Classification, XGBoost, Neural Networks, Statistical Analysis, REST APIs, Web Scraping, Automation
Platforms & Tools: Monday.com, AI-Augmented Development (Claude LLM)