Andrés Villanueva

Data Scientist II | Data Scientist

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PROFESSIONAL SUMMARY

Product data scientist with five years designing experiments, building churn and pricing models and turning analysis into product decisions for subscription software. Strong in causal inference and A/B testing, writes production-quality Python and SQL, and works closely with product managers and engineers to ship models into the product.

PROFESSIONAL EXPERIENCE

Data Scientist II

Mar 2023 — Present

Brightline Learning Apps · Austin, TX

- Built a churn risk model in XGBoost that triggers in-app save offers, deployed with engineering and evaluated through a holdout test that showed fewer cancellations.
- Designed the company's experiment guidelines on sample size, guardrail metrics and peeking, raising the share of tests that reached clear decisions.
- Ran a pricing test across three annual plan levels and used Bayesian analysis to recommend the plan structure leadership adopted.
- Mentored two analysts on causal methods, including difference-in-differences for features that could not be randomized.

Data Scientist

Jun 2021 — Feb 2023

Lone Star Insurance Services · Dallas, TX

- Developed a claims triage model that routed simple auto claims to fast-track handling, shortening settlement times for routed claims.
- Worked with compliance to document model features and fairness checks, meeting the review standards required for production use.
- Automated weekly loss ratio reporting with SQL and Python, replacing manual spreadsheets used by underwriting managers.

EDUCATION

MS, Applied Statistics — Gulf Coast Research University **2021**

BS, Economics — Hill Country State University **2019**

SKILLS

Technical: Python, SQL, A/B testing, Causal inference, Bayesian statistics, scikit-learn, XGBoost, dbt, BigQuery, Airflow, Looker, MLflow, Experiment design