Andrés Villanueva

DATA SCIENTIST II | DATA SCIENTIST

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SKILLS

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

EDUCATION

MS, Applied Statistics
Gulf Coast Research University
2021

BS, Economics
Hill Country State University
2019

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.