



Jack Duck

Data Scientist

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Data scientist with a delivery mindset—designing experiments, building reliable models, and shipping analytics that change business outcomes.

Connects data strategy to KPIs with measurable uplift targets.

Builds clean pipelines, versioned datasets, and reproducible notebooks.

Communicates with execs and engineers—clear artifacts, crisp handoffs.

Skills

Core Analytics

- EDA
- Data storytelling
- Statistical inference
- Experiment design (A/B)
- Forecasting
- Data visualization
- Executive communication

ML & Engineering

- Python
- Pandas
- NumPy
- Scikit-learn
- SQL (PostgreSQL, BigQuery)
- Feature pipelines
- Data versioning (DVC)
- FastAPI
- Docker
- CI/CD
- AWS (S3, ECS, Athena)
- Monitoring & drift checks

Tools & Collaboration

- Jupyter
- VS Code
- dbt
- Airflow basics
- Great Expectations
- Plotly
- Metabase
- Looker
- Git
- Documentation workflows
- Stakeholder workshops
- English (C1)
- Quackish (native)

Experience

Senior Data Scientist (Feather Labs)

07.2023 - Present

- Owned conversion analytics for a SaaS funnel; designed experiments that lifted paid activation by 9% QoQ.
- Built feature pipelines and ML models for churn risk scoring; deployed via FastAPI with monitoring and retrain hooks.
- Partnered with PMs to define KPI trees, success metrics, and rollout guardrails for new product surfaces.
- Packaged insights into exec-ready narratives with clear recommendations and confidence levels.

Data Scientist (PondView Interactive)

05.2021 - 06.2023

- Developed demand forecasts for seasonal campaigns using Prophet/ARIMA with bias-adjusted baselines.
- Automated ETL checks with Great Expectations, improving data quality SLA adherence to 98%.
- Created dashboards for marketing and product leadership, reducing ad-hoc analytics requests by 30%.
- Ran usability-aligned analytics for UX teams to correlate session behaviors with activation success.

Data Analyst (QuackOverflow Solutions)

01.2019 - 04.2021

- Delivered weekly performance readouts with actionable root-cause analysis for traffic and retention trends.
- Built SQL models to standardize metrics definitions across product and finance stakeholders.
- Prototyped lightweight scoring models for lead qualification and evaluated uplift with offline tests.

Projects

Greenlight Forecasting

A corporate-ready forecasting toolkit with data validation, backtesting, and auto-reporting to Slack for leadership.

Technologies: Python, Prophet / ARIMA, Great Expectations, Metabase, Slack webhooks

Link: github.com/jackduckdev/greenlight-forecasting

Signal Bench

Feature store experiments comparing uplift across engineered signals with reproducible notebooks and CI checks.

Technologies: Pandas, Scikit-learn, DVC, PyTest, Docker

Churn Radar

End-to-end churn risk service with FastAPI, scheduled scoring, and Looker dashboards for customer success.

Technologies: FastAPI, PostgreSQL, Airflow basics, Looker, AWS ECS

Link: github.com/jackduckdev/churn-radar

Cohort Clarity

Self-serve cohort analysis templates with prebuilt SQL models, retention curves, and lift visualizations for PMs.

Technologies: SQL (BigQuery), dbt, Metabase, Python, Plotly

Education

Data Science & Business Analytics (Master of Science)

Mallard Institute of Technology (MIT)

10.2017 - 07.2019

Statistics & Econometrics (Bachelor of Science)

University of Wetland Arts

10.2013 - 06.2017