



# 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](https://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](https://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