DATA-DRIVEN SOLUTIONS

Treat your data like software

Want practical Advise for your data team?

→

You need to read...

Version everything

Datasets, models, transformations — all of it.

Use Git, TFVC, or any modern Source control.

Know what changed, when, and why. Rollbacks become painless

01

Automate Validation

Run tests on your data like you do with code.

Validate schemas, expected values, nulls, and edge cases before they hit production.

02

Implement CI/CD for pipelines

Automate deployments.

Run tests before merging.

No more manual job triggers or broken pipelines sneaking through

03

Write transformations as code

SQL in dashboards and GUIs gets lost fast.

Move logic into version-controlled code — it's easier to test, review, and maintain.

04

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Use peer review & clear documentation

Treat pull requests for data like code PRs.

Add comments, context, and rationale. It builds shared ownership and understanding

05

Adopt data contracts

Define clear expectations between data producers and consumers — schema, freshness, quality rules. Enforce them at runtime.

This creates accountability and prevents downstream breakage.

06

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Start small, improve fast

You don't need to overhaul everything at once.

Pick one workflow.

Add versioning. Introduce one test. Build from there

❖

07

Final Thoughts

This isn't about adopting someone else's stack.

It's about building reliable, collaborative, and auditable data practices — the kind that scale with your team and your business.

Treat your data as a product. Engineer it with discipline.

Your future self — and your business — will thank you.

07

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