How 200+ Leaders Made Business Data Work Harder

Jesika Haria, LogicLoop

What you'll get out of this talk

How to get more operational use out of your data



You = Dani, the Data Engineer

5-10 years in industry

Build reports and pipelines for business users

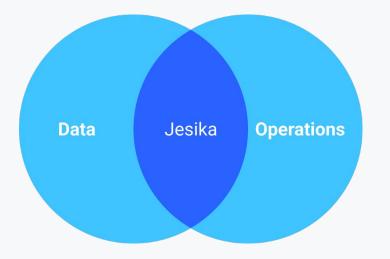
Want to do more high-leverage work

We'll cover

- 200+ leaders' operations data needs
- A system for business alerting & automation
- How to get the most out of it
- References & success stories

Make data work harder than people!

Know Thy Speaker







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Jesika Haria *CEO, LogicLoop* @jesikaharia

Founder and CEO Operations automation for high-growth companies to move faster without engineers

Founding Team #5

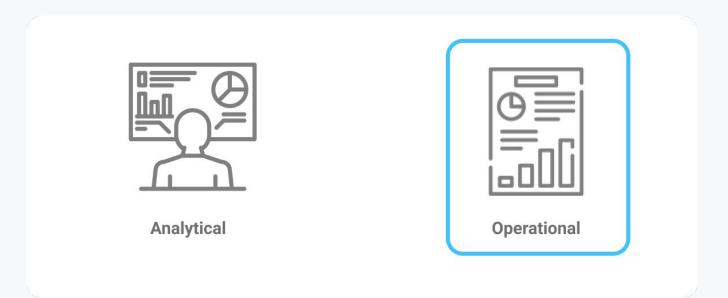
Built 1st remote eng team, customer success for top 10 banks, founded Product org

Sr Software Engineer Built 1st cloud product used by 100,000+ analysts as Google Cloud Dataprep

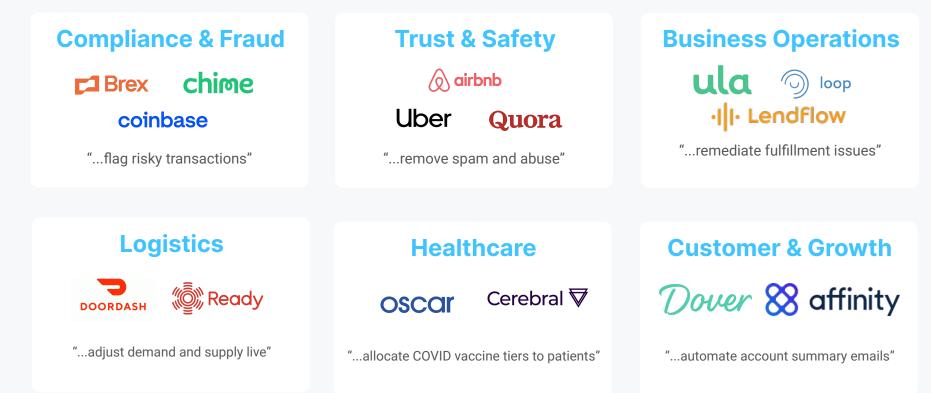
Graph Search Engineer Ranking algorithms for Groups

Massachusetts Institute of Technology **EECS | Advanced Researcher** 1 of 3 from all over India selected 200+ leaders share their operations data needs

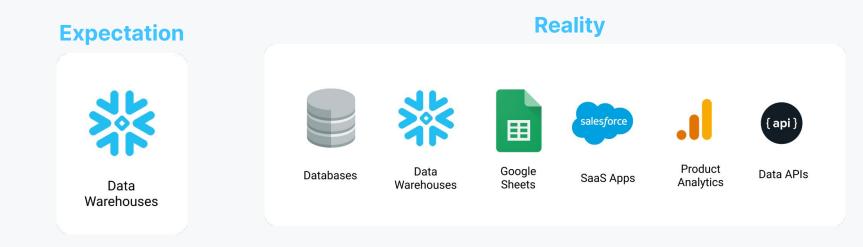
Operational data is an under-utilized lever in business growth



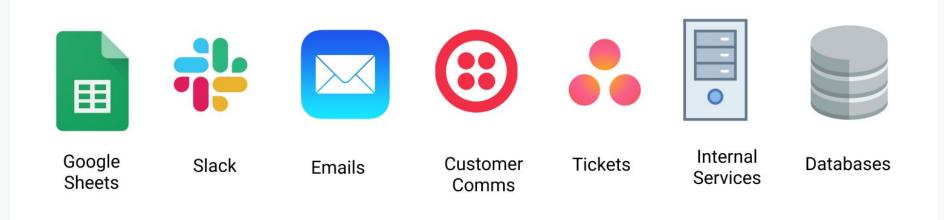
200+ leaders use operational data across verticals



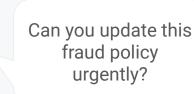
"We ingest operational data..."



"...to trigger actions"



Fast-growing companies are bottlenecked





Errr.. next sprint?



Ollie, the Ops

- Frustrated by slowness
- Cannot experiment
- No visibility or governance

Dani, the Data Eng

- Overwhelmed fighting fires
- High-leverage work suffers

Growth = new business apps & workflows Creates demand for new data pipelines

Only ~20% requests get fulfilled by data engineers

Self-serve is the key

Work = Data x Growth Pressure

Engineers x Self-Serve



Operations data maturity checklist

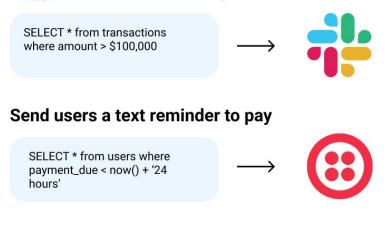
 Clean operational data exists Business knows where to find it 	 Business can proactively identify issues Business can debug 	 Business can automate handling exceptions Business can
 Business can self-serve insights 	and rectify exceptions	improve operational processes over time
"read"	"write"	"leverage"



Introducing a system for business alerting and automation

Motivating use cases

Trigger a Slack alert for large transactions

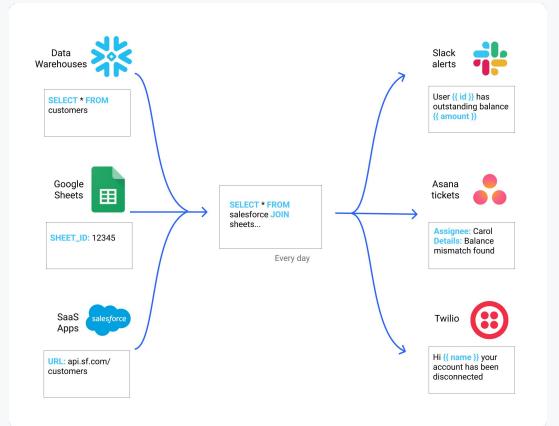


Automate weekly account summary emails

SELECT stats FROM accounts

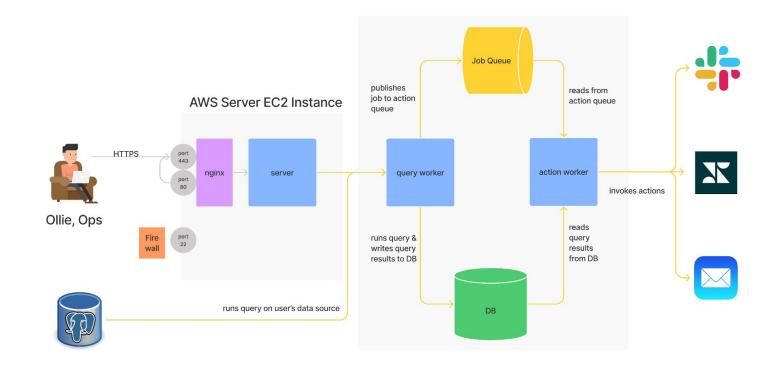


An ideal business user experience

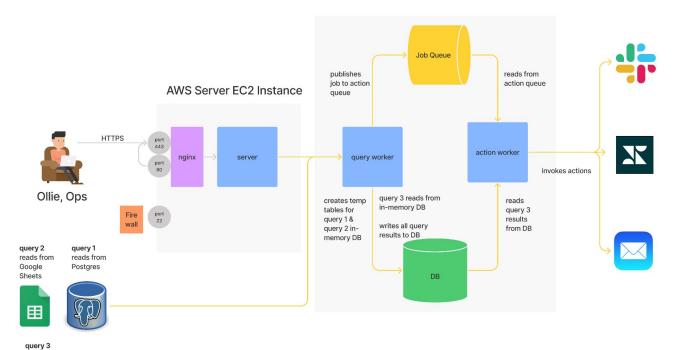




What a solution could look like



What a solution could look like



combines query 1 and 2

Common pattern amongst best internal tools

A system for business users to detect and act quickly



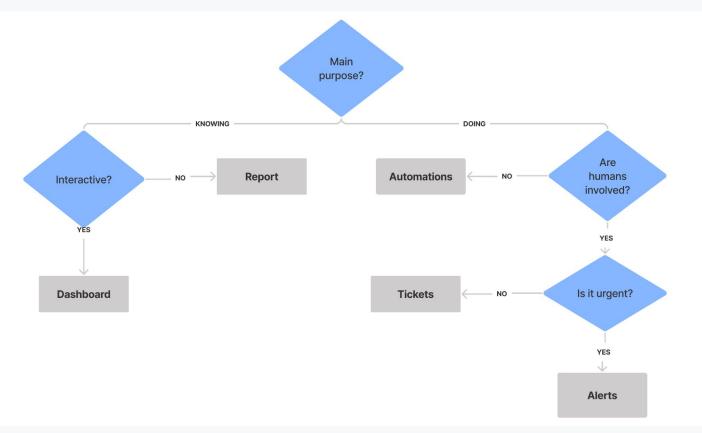
change thresholds

Slack alerts, emails, customer communications etc.

ΤΔΚΙ

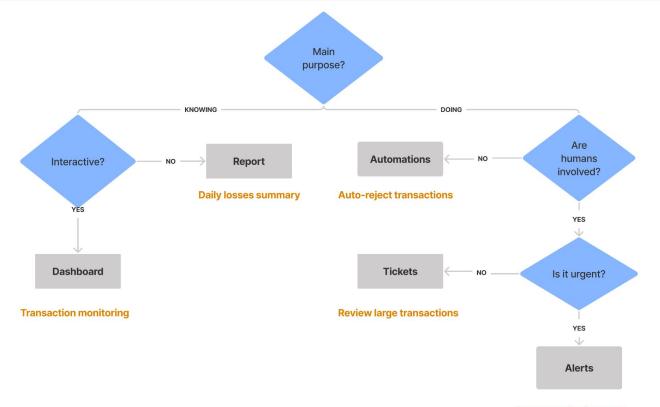
How to get the most out of a business alerting and automation system

#1 Route operations data correctly





Example: fraud data operations



Unusual spike in losses

#2 Deep dive: alerting best practices

Alerts should be real, urgent and actionable

Creation

- Don't re-alert for the same issue
- Calibrate as early and often as possible
- \Box Aim for <5 / week

Tip: Over-monitoring is harder to solve than under-monitoring

Content

- Which system created the alert
- Description
- Severity of deviance
- □ Link to resolve / debug
- Owner
- SLA for resolution

Tip: Use emojis to help skim!

Management

Audit and action logsDebugging dashboards

Tip: Snooze or set reminder schedules



Example: a fraud alert

System of origin

Clear owner



Your App APP 12:37 PM @Jesika Haria you have a new large transaction for **Skimmable** review: Link to details Fred Enriquez - Large Transaction Alert When: Aug 10, 4:22 am Type: **Relevant info** Computer (laptop) **Risk:** Reason: **Urgency level** High Amount \$15,000 exceeded limit \$100. (review in 1 hour) Approve Deny

Deviance

Call to action

#3 Iterate, iterate, iterate

Improve signal

- Weed out alerts >x% false positive rate
- Consolidate alerts that have >x% overlap
- Distinguish between data and system failure

Monitoring as code

- □ Version control changes
- Backtest
- Permissioning
- Approval process

Management

- Ensure commensurate staffing
- Groom backlogs every month
- Track time to resolve and automate biggest time sinks
- Consolidate decisioning systems

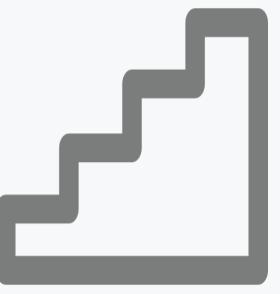


Example: Improving fraud alerting system

Step 1 Add a Slack notification & adjust thresholds

Step 2 Create review tickets

Step 3 Auto reject



How to get the most out of a business alerting and automation system

Route data correctly

Decision Tree + Example

Deep dive: alerting best practices

Checklist + Example

Iterate, iterate, iterate

Checklist + Ladder



References & Success Stories

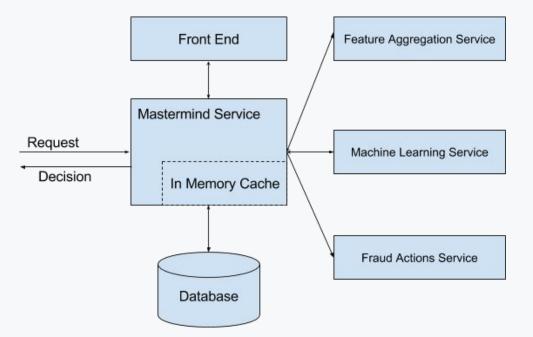
Case study: Oscar Health

Built Automat, a self-service configuration platform

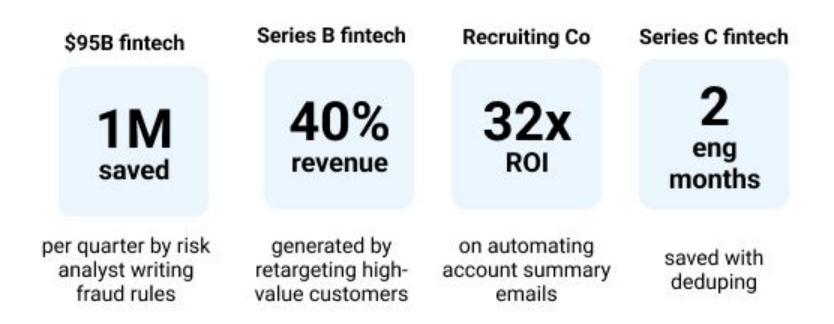


Case study: Uber

Built Mastermind, a real-time fraud rules engine



And results you won't find blogs about





What we talked about

- 200+ leaders' operations data needs
 - □ Self-serve maturity checklist
- A system for business alerting & automation
- How to get the most out of it
 - Examples and best practices on how to route data, alert and iterate
- References & success stories
 - □ Architectures and case studies



I think about this a lot because we're building it – let's talk! @jesikaharia jesika@logicloop.com

