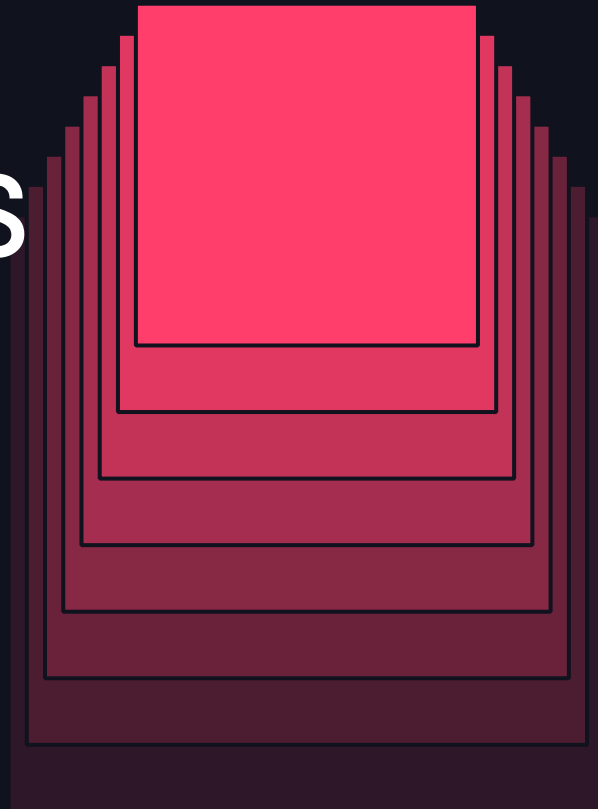# APPS ON DATABRICKS

(D24DBX2745B)

Nick Kramer & Andre Furlan Bueno
6/12/2024

Data is a team sport

Dan the Data Scientist

Sales data by customer, region, and product mix


Sarah the Sales Exec

DATA AI SUMMIT

What's Sarah supposed to do with this?

```
200712,NG,Natural Gas,2972,892,29799803,,T1 PGE Master B,Ground level near Gate 20,0,,,0,,,134942,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,N,N,
200712,NG,Natural Gas,2974,897,44267575,,T3 PGE Master,In fenced area rear of T2,0,,,0,,,450902,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,N,N,
200712,NG,Natural Gas,2970,896,03E001543E,,T1-L7 TGI Friday,50' east of dumpster enclosure behind column,0,,,0,,,19829,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,N,N,
200712,NG,Natural Gas,2984,898,03E001553,,T3-L12 Airport (HVAC),Roof of T3,0,,,0,,,32,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,N,Y,61858780
200712,NG,Natural Gas,2949,891,03E001540A,,T1-L9 Fung Lum Restaurant,"Near cart road at ""C""",0,,,0,,,32504,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,N,N,
200712,NG,Natural Gas,2980,887,03E001557A,,T1-L5 Legends of San Francisco,At split in B/A B near Gate 24 on wall,0,,,0,,,9,0,0,1,0,0,0,0,0,0,0,0,0,0,0,0,N,N,
200801,EA,Electric A,117,1164,67-795-320,,"American Airlines Jetways, B/A ""E""",Unknown,1958,L82-0111,American Airlines Lease And Use Agreement in Terminal
3,12263,200801,201106,89144,95115,5971,10,59710,0,59710,0,0,0,0,0,100,0,0,0,0,N,N,
200801,WA,Water,193,512,47998401,DOM,"Fung Lum 2 New IT, North Food Court",meter room,2797,L99-0292G,Fung Lum Corporation IT FB Lease,19100,200801,201608,14009,14204,195,1,195,0,195,0,0,0,0,0,100,0,0,0,0,N,Y,70046629A
200801,EA,Electric A,68,919,01-308-976,,"United Airlines, T3 E elec rm panels U60-HL","T3 East Elec. Rm. Panels:U60-HL,HL-2,HL-4,HL-5",2635,L96-0268,United Airlines Ground Lease of Plot
7X,26661,200801,201205,19553,20205,652,100,65200,0,65200,0,0,87,0,0,100,0,0,0,0,N,N,
200801,NG,Natural Gas,35,886,527547,,T1-L6 Willow Creek Grill,At split in B/A B near Gate 24 on wall,3079,L03-0183,Bayport Concessions dba Willow Creek Grille Domestic Terminal FB
Lease,22675,200801,201609,23014,23784,770,1,770,0,770,0,0,0,0,0,100,0,0,0,0,N,N,
200801,NG,Natural Gas,36,887,03E001557A,,T1-L5 Legends of San Francisco,At split in B/A B near Gate 24 on wall,0,,,0,,,9,9,0,1,0,0,0,0,0,0,0,0,0,0,0,0,N,N,
200801,EA,Electric A,74,960,02-948-732,,"United Airlines, B/A ""G"" 2nd & 3rd FL","B/A ""G"" 2nd & 3rd FL",2461,L82-0126,United Airlines Lease and Use Agreement as Amended for the
ITB,16008,200801,201106,36409,50387,13978,1,13978,0,13978,0,0,33.04,0,0,100,0,0,0,0,N,N,
200801,WA,Water,134,453,4800307,TEN,Tomokazu,remote on wall in dining area,2804,L99-0292O,Tomokazu IT FB Lease,19239,200801,201701,1784,1820,36,1,36,0,36,0,0,0,0,0,100,0,0,0,0,N,Y,70005247
200801,WA,Water,150,469,46714975,,Jalapeno Taqueria (Luna Azul) T3,in kitchen area up high,3068,L03-0187,"Urban Tortilla, Inc. dba Urban Tortilla Domestic Terminal FB
Lease",22454,200801,205012,843,859,16,1,16,0,16,0,0,0,0,0,100,0,0,0,0,N,N,
200801,WA,Water,216,535,49350659,TENX,"D-Lew dba Perry's T1, B/A C",In kitchen up high over desk,2449,L03-0198,D-Lew Enterprises (dba Perry's) Domestic Terminal FB
Lease,15787,200801,205012,2511,2618,107,1,107,0,107,0,0,0,0,0,100,0,0,0,0,N,Y,1226201
200801,WH,Water Hybrid Meter,247,568,70996314A,,"United N/Side MOC 1/3 lrg side based on 2-8""""=1-12""",in vault near San Bruno Ave/McDonnell Road,2674,L73-0066,United Airlines Maintenance Base Lease at Plot
16,18140,200801,201502,3851,3851,0,1,0,0,0,0,0,0,0,0,100,0,0,0,0,N,N,
200801,WA,Water,270,593,26259075a,,United GSE Store R-9 by GSE by C87,GSE outside shop area,2635,L96-0268,United Airlines Ground Lease of Plot 7X,17668,200801,205012,71469,71734,265,1,265,0,265,0,0,0,0,0,100,1046.1,0,0,1046.1,N,N,
200801,WA,Water,273,596,28558516,TENX,"Philippines New IT, Mabuhay Lng, 4th fl IT Shldr",remote in hallway,2654,L82-0317,Philippine Airlines Lease and Use Agreement as Amended for
ITB,17905,200801,201106,165,171,6,1,6,0,6,0,0,0,0,0,100,0,0,0,0,N,Y,70053557
200801,WA,Water,277,601,31910514,,US Coast Guard North Bldg,north side near gate,3011,DEED306,U.S. Coast Guard Deed Conveying Fee Simple Ownership to Federal
Gvmt.,26639,200801,207512,41425,41437,12,1,12,0,12,0,0,0,0,0,100,84.7,0,0,84.7,N,N,
200801,WA,Water,294,618,43011349,,Signature Flight East Hangar E/S,south east side outside,3032,L07-0106,Signature Flight Support Lease and Operating Agreement for the
FBO,26636,200801,205012,0,0,0,1,0,0,0,0,0,0,0,0,100,161.1,0,0,161.1,N,N,
200801,EC,Electric C,594,1404,F1151316,,"Covenant Aviation Security, T2.2.196",T2.2.196,0,,,0,,,250,0,0,1,0,0,0,0,0,0,0,0,0,0,N,N,
200801,EC,Electric C,596,1508,T1-2-01,,H. Young Enterprises dba Just Desserts Dom Term,Unknown,0,,,0,,,2156,2543,387,1,387,0,387,0,0,0,0,0,0,0,0,0,0,N,N,
200801,EC,Electric C,608,1148,63-333-766,,Menzies/(Ogden Ground Services) Bldg 11 at Lot 3,Unknown,1869,P3632,Menzies Aviation Group (USA) Nonairline Nonterminal Space Permit at Bldg
11,11539,200801,201506,9214,9228,14,160,2240,0,2240,0,0,0,0,0,100,0,0,0,0,N,N,
200801,EC,Electric C,642,1045,03-073-101,,Emporio Rulli North Food Court,Unknown,2453,L99-0292E,Emporio Rulli IT FB Lease Agreement,15853,200801,201402,626815,635750,8935,1,8935,0,8935,0,0,18.48,0,0,100,0,0,0,0,N,N,
200801,EC,Electric C,649,1260,BA A33-59,,"Pacific Gateway Concession B/A ""A"" South Elec. Rm.",A South Elec. Rm,2980,L98-0228,Pacific Gateway Concessions B/As B & C Principal Concession Retail
Lease,20998,200801,201709,186078,190759,4681,1,4681,0,4681,0,9,0,0,100,0,0,0,0,N,N,
200801,EC,Electric C,662,1349,F1143204,,D-Lew ofice space Room T3.1.63E,Unknown,1194,P3924,D-Lew Enterprises Office Space Permit - T3,5946,200801,205012,246,0,0,1,0,0,0,0,0,0,0,0,100,0,0,0,0,N,N,
200801,EC,Electric C,663,1346,F1143201,,"D-Lew office and storage, Room A.1.M.004Q 643",Unknown,1185,P3433,D-Lew Enterprises Storage Permit - ITA,5861,200801,205012,999,0,0,1,0,0,0,0,0,0,0,0,100,0,0,0,0,N,N,
200801,EC,Electric C,711,986,02-973-818A,,Creative Host Services TGIF T1.2.057,T1 elec. Rm. S14,3038,L03-0197,Sistina II dba PIQ Domestic Terminal FB
Lease,21954,200801,201204,606543,627173,20630,1,20630,0,20630,0,0,43.28,0,0,100,0,0,0,0,N,N,
200801,WH,Water Hybrid Meter,343,671,NN0028,,US Coast Guard South Bldg,south side near flag,3005,L8904L663012,U.S. Coast Guard Land Lease at Plot 42,26923,200801,205012,1564,1567,3,1,3,0,3,0,0,0,0,0,100,0,0,0,0,N,N,
200801,SW,Sewage,358,682,17683186S,,"US Post Office Bldg 660, West Field Rd",in pit S/W corner,2989,LPUC24392,U.S. Postal Service Land Lease at Plot 10F,21176,200801,207512,28118,28170,52,1,52,0,52,0,0,0,0,0,100,592.8,0,0,592.8,N,N,
200801,SW,Sewage,369,693,46714977S,,D-Lew Enterprises ( Caffe Del Mondo) New IT,in rear near water heater,2441,L99-0292K,D-Lew Enterprises (dba Il Fornaio) IT FB Lease
Agreement,15682,200801,201608,1530,1555,25,1,25,0,25,0,0,0,0,0,100,0,0,0,0,N,N,
200801,SW,Sewage,375,699,46715000AS,OTHER TENANTS,"Emporio Rulli 3 IT, South Food Court, CS30",meter room,2453,L99-0292E,Emporio Rulli IT FB Lease Agreement,15851,200801,201702,735,745,10,1,10,0,10,0,0,0,0,0,100,0,0,0,0,N,N,
200801,SW,Sewage,377,701,47452858S,,"Subway (GDDC, Inc.) T3",in kitchen near sinks--up high,2683,L03-0185,Baysubway Domestic Terminal FB Lease Agreement,18270,200801,205012,260,267,7,1,7,0,7,0,0,0,0,0,100,0,0,0,0,N,N,
200801,SW,Sewage,417,741,48000410AS,,Andale SFO New IT,remote near double doors in hall,1863,L99-0292A,Andale SFO - New IT FB Lease,11462,200801,201608,2588,2627,39,1,39,0,39,0,0,0,0,0,100,0,0,0,0,N,N,
200801,SW,Sewage,469,796,088655S,,Japan Airlines Co. S/A JAL Cargo Bldg,fire protection,1108,L01-0297,Japan Airlines Cargo Facility Lease at Plot 50B,5145,200801,205012,0,0,0,1,0,0,0,0,0,0,0,0,100,0,0,0,0,N,N,
200801,EC,Electric C,722,1434,F1162201,,Verified ID pass T1 break room T1.B.028,Unknown,3442,P3964,Verified Identity Pass dba Clear Space Permit,26835,200801,207512,329,0,0,1,0,0,0,0,0,0,0,0,100,0,0,0,0,N,N,
```

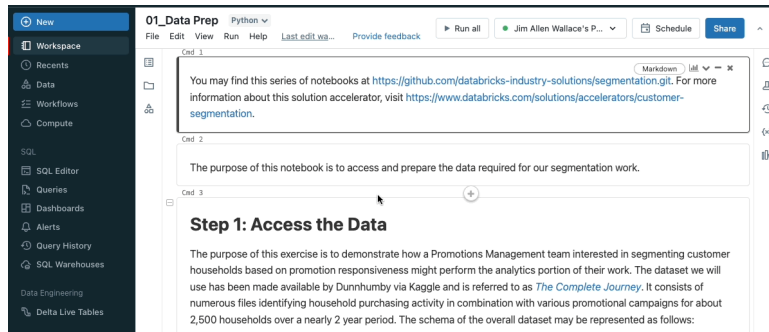# Data apps democratize data
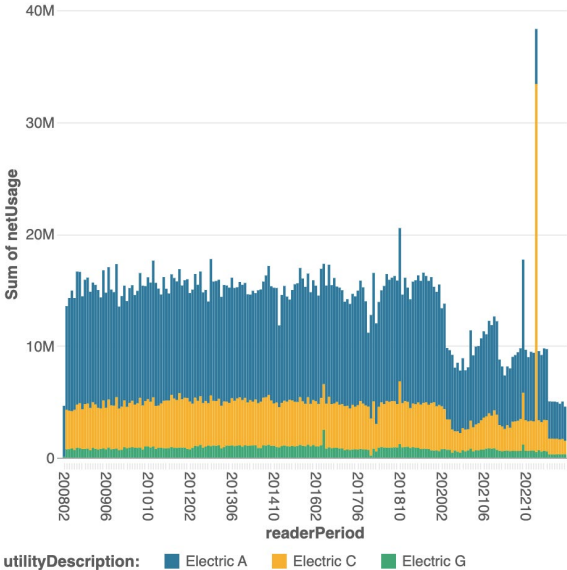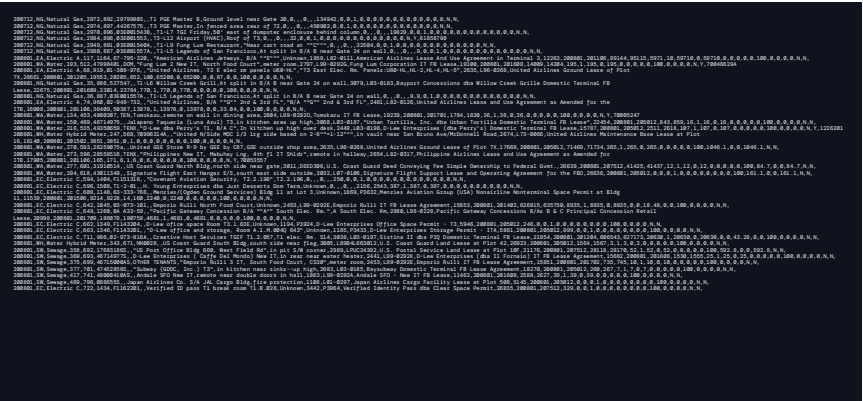
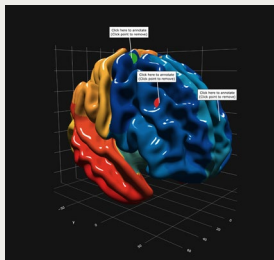# Dashboards and notebooks are data apps

Dashboards

- Visualize structured data
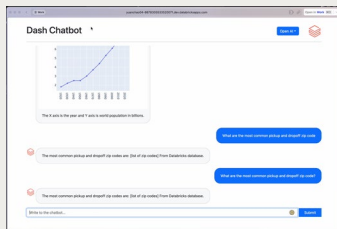- Sharing with end users
- Low-code authoring

Notebooks

- Handle arbitrary data and computation
- Quickly edit Python code
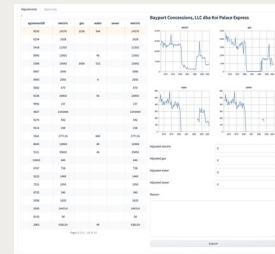- Technical audience

Other Data Apps
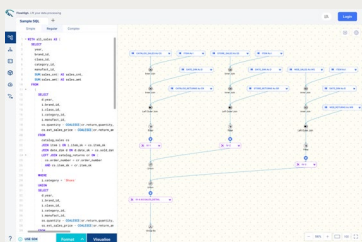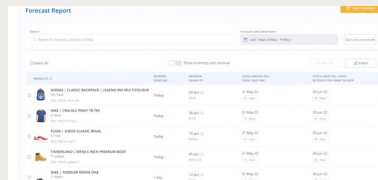

Custom Visualizations

LLM knowledge base

What-if analysis

Workflows & approvals

Data engineering

Forecasting

Data reconciliation

```
POST /api/2.0/harvests

{
  "site": "Morris",
  "yield": "35",
  "variety":
"Manchuria"
}
```
APIs

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Databricks has many tools for data

SQL

Spark

Volumes

Model serving

Vector search

Delta Live Tables

Data Federation
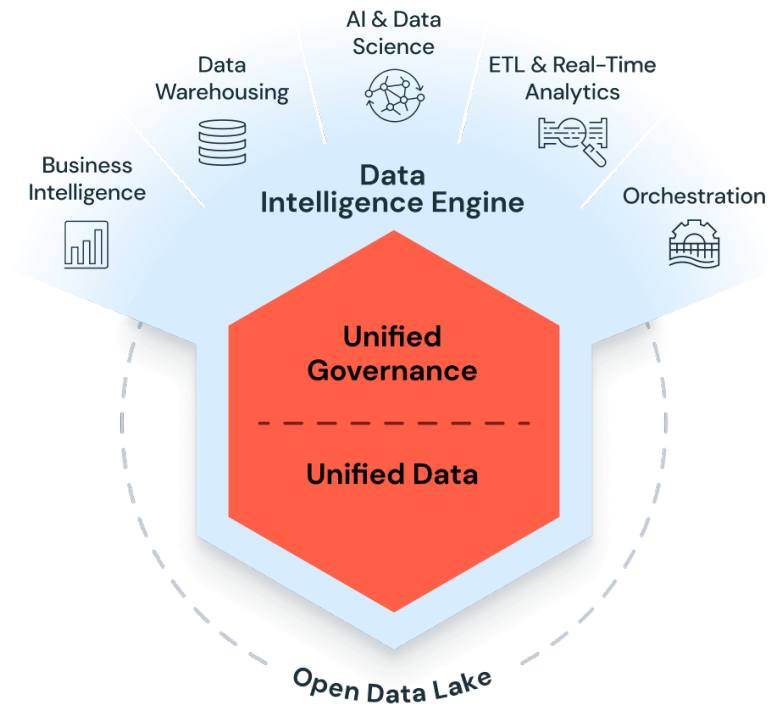
Apps have been hard to host and share securely

Hard to host

Hard to share

Hard to secure
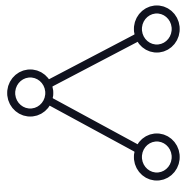
Introducing Databricks Custom Apps

Databricks Custom Apps

The easiest way to create data apps with built -in security and governance.

Host

Run any Python code in Databricks serverless compute

Share

Share with users who don't use Databricks

You control all the pixels

Govern

Security built-in

Integrated access control

Demo time!

Best practices

DO

- Heavy lifting in Databricks, not in your app process

- Use version control (Git folders)

- Have separate dev & production apps

DON'T

- Put secrets in apps – use credential manager API instead

- Hardcode resource paths – use app.yaml environment variables

Coming soon

- UI
- Hot reload

DATA-AI SUMMIT

Roadmap

Now — Private Preview

Summer — Public Preview

End of year — General Availability
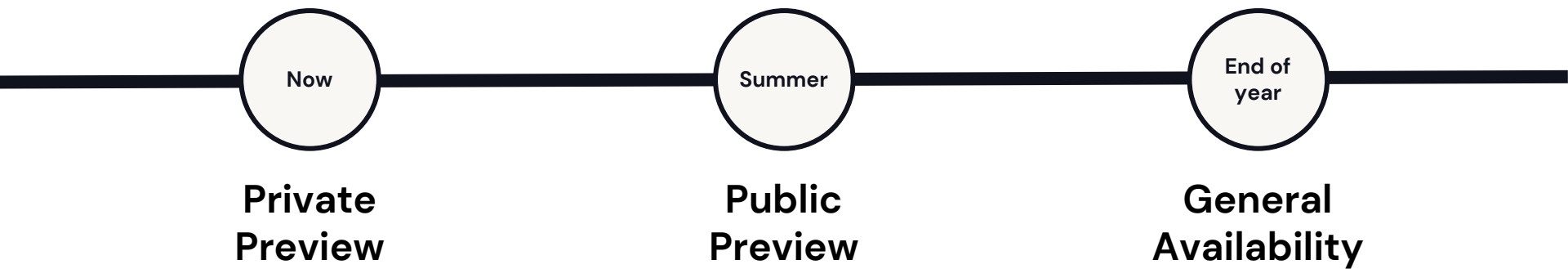
Recap

1. Build an app quickly using Python
2. Host it securely in Databricks serverless compute
3. Share it with non-technical colleagues

We want your feedback!

https://bit.ly/custom-app-private-preview-signup

Reach out to
nick.kramer@databricks.com &
andre.furlan@databricks.com if you
want to apply to private preview.

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