USE CASE LIBRARY

External Customer Stories

Go to the Snowflake ML Compass for all available resources

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Snowflake Data Science

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ARCHITECTURE

Snowflake ML

Integrated set of capabilities for end-to-end ML in Snowflake

Data Science Agent PR soon Snowflake Notebooks External

IDEs

Batch Data Apps

Snowflake ML APIs

Experiment Tracking PR soon

ML Jobsga soon

Model Registry

Feature Store

Model Serving

ML Observability

Explainability

Container

Runtime GPU CPU + pip install more

ML-Optimized

. Warehouse

CPU
Any Model
APIs
PR: Private Preview | PU: Public Preview

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Snowflake ML

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Snowflake ML Customer Deck

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CUSTOMER REFERENCES

For Data Scientists and ML Engineers

Customer Highlight:

Faster and cheaper dev to production for ML workflows in Snowflake

Sagemaker Preprocessing Scoring & Inference Post-processe

Costly & slow to move EDW data to S3 for

SageMaker, especially with 60M+ rows

- Separate ML platform caused friction
- Platform overhead

Snowflake data Data Egress Data Ingress Snowflake data

Feature
Engineering &
Model Training
Training
Dataset
Snowflak
e data
Feature
Store
Scoring/Inference
Model
Registry

- Cut time to production on feature engineering, training & inference by over 60%
- 36% cost savings on compute and operation
- 30+ models built in under 6 months using

Snowflake ML

Single Table to CDP Snowflake Notebook/Task Inference Dataset

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Scene+ leverages machine learning to deliver relevant member experiences across our properties. This requires working with a vast amount of data. Leveraging the straightforward Snowflake Feature Store drove a 66%

reduction in processing time; we can join the model universe with the features with just four blocks of code. Previous methods required writing extensive Python scripts, input files and additional dependency scripts." Aasma John

Data Science Manager | Scene+

Blog link

Customer Highlight:

Easy, governed sales trend predictions across countries in Snowflake **Notebooks**

Developer View:

E2E Lifecycle is easier in Snowflake than Sagemaker

Admin/Governance View:

ML is cheaper + easier to govern in Snowflake

Build a model ~2 weeks setup (set up connectors + permissions to pull in data) 0 set up, so you can start building immediately Permissions set up Time consuming Must manage permission set up and connectivity in Snowflake + Sagemaker None Needed E2E flows use only Snowflake RBAC Productionize the model ~3 weeks setup (Separate IT team had to create image pipeline, schedule to run in 3rd party tool, and write predictions to Snowflake) <1 hour (Data Scientist can use GIT to push from DEV to PROD account: PROD account DevOps team will schedule) Data transfer Costly Data in-flight between AWS <> Snowflake (also potential data security issues) None Needed Data fully within Snowflake Visibility &

collaboration Iterate & update

Notebooks

~1 dav

for changes to go live (Separate IT had to push image) <1 hour

(Dev Ops team is

notified of changes via email, and pulls in new updates quickly) Difficult
Siloed local-machine buildings; hard to leverage each other's work for projects = longer time to delivery
Easy to govern
Fully visibility into ML projects; easier to reuse each other's notebooks and flows

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Cloudbeds - Achieves 95% accuracy across a 20,000-property dataset with Snowflake ML

Cloudbeds is a global hospitality management platform that uses ML to forecast performance across 20,000 global properties Link to blog

Difficulty scaling forecasting across a large dataset with 20k properties.

properties.
Long 12+ hour training cycles, reducing experiments the team could run each week.
Accelerated experimentation cycles, achieving 95% accuracy and efficiency gains of over 90% within a six-month forecasting window.
Experiments that took 12+ hours were reduced to 30 minutes

Customer Story:

95% forecasting accuracy with 24x reduced training time for 20k+ properties in Snowflake

Before After with Snowflake ML

Training Cycles 12+ hours per experiment

3 experiments per week

30 mins per experiment

5 experiments per day

Read the blog!

Large datasets Multiple data stores Streaming data into Snowflake

Experimentation

tracking Limited Complete across all properties

Reproducibility Manual Full tracked and automated

© 2025 Snowflake Inc. All Rights Reserved 14 Fidelity Investments

Feature Engineering with Snowflake ML

Language of Choice on a Single Platform

Data is not duplicated nor transferred across the

network.

Scalability without Operational Complexity

Handles large data volumes

Scales both vertically and horizontally

Simple to use

Lazy evaluation

No Governance and Security Trade-offs

Leverages extensive RBAC controls, enabling

tightly managed security

Learn More

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MinMax Scaler One Hot

Encoding Pearson

Correlation

28 million rows 100 million rows 162k rows

536 7 **77**X

654 13 **50**X

702 41 **17**X

CHG Healthcare

Classification models in Snowflake ML for healthcare staffing

"Using GPUs from Snowflake Notebooks on Container Runtime turned out to be the most cost-effective solution for our machine learning needs. We appreciated the ability to take advantage of Snowflake's parallel processing with libraries beyond Snowflake ML, offering flexibility and improved efficiency for our workflows."

- Data Scientist, CHG Healthcare

Model Development in Snowflake ML

Physician Data

Python SDK Predicted Outcomes Worksite

Assess Model

Data Structured
Data
Preprocessing
Train & Test Split

EDA Model

Feature

Importance & SHAP Performance

SQL API Predicted Error & Feature

Drift Monitoring

3rd Party Data Snowpark Container

Endpoint Email

Learn More

IGS Energy - ML Migration from Databricks to Snowflake ML

IGS is a retail energy provider in the Midwest that offers various sustainable energy solutions.

Their business requires demand forecasting for transactions ranging from long term-decisions around buying and selling power to trades in the "day-ahead energy market" IGS' ML forecasting models require massive amounts of data, up to 40-50 billion rows exceeding a terabyte Using one predictive model per customer account which came with a lot of overhead when scaled to all accounts

Link to case study

Moving from hundreds of thousands of individual forecasting models in Databricks to one unified model in Snowflake helped IGS achieve 75% cost savings in training — without sacrificing accuracy. Training models and generating predictions previously took a half hour vs minutes in Snowflake to generate forecasts for hundreds of thousands of customers

"We can more easily build predictive models and mock up data products all in the Snowflake ecosystem because the data is all there."

- Dan Shah, Manager of Data Science, IGS Energy

Swire Coca Cola - Managed Spark Migration for AI/ML

Optimization of planned logistic routes for Swire, a local bottler for Coca-Cola and other beverage brands

Link to blog

Managed Spark platform had multiple billing processes and additional cloud provider costs that made it difficult to manage and track costs Data was moved in and out of Snowflake for feature engineering and model training Managing complex infrastructure diverted away time and resources from building models Governance, data integrity and security challenges Model deployment accelerated by weeks with Snowpark and Snowpark ML, resulting in significant cost savings The seamless transition was facilitated by the inherent

advantages of Snowpark and Snowpark ML, which exhibited a syntactic similarity to Spark and SparkML

Spark New Zealand - Unified Marketing Analytics Platform

End-to-end marketing analytics solution using from Snowpipe to Snowpark ML
Create machine learning models with Snowpark ML to better understand customers' needs and preferences
Data science team was using virtual machines for processing with deployment in docker containers involved unnecessary data transfers, increased costs and complexity

Link to blog

Queries are executed lazily, improving performance, and the absence of data movement enhances governance. This streamlined methodology eliminates the necessity for intricate deployment pipelines and additional computing resources, resulting in significant cost and

time savings. Building Predictive

Purchase Models with Snowflake ML

9.2x

Easy
Management
Speed up with
Snowflake ML
compared to Spark
Performance
/ Scale
Speed © 2025 Snowflake Inc. All Rights Reserved
Eliminate
Complexity
Optimize

Decile - Propensity to Purchase Models in Snowflake ML

Decile is an all in one Customer Data + Analytics Platform that helps marketing and leadership teams make data-driven decisions to help their brands grow profitably. Built Propensity to Purchase models in Snowflake ML using the Snowpark ML Modeling APIs and Model

Registry

Previously used managed Spark for

ML which caused several challenges:

- Data transfers
- Multiple levels of resource administration, complicating tunina
- Balancing resources / timing required sampling data for input into models
- Additional code for caching

Link to webinar

9.2x speed up with Snowflake ML compared to Spark (reduced time from 60 to 6.5 mins)

Intuitive developer experience with familiar SKLearn and XGBoost APIs

Facilitates backtesting, QA, and monitoring

Can easily share and collaborate with other team members with Snowflake permissions model

Uses the Model Registry to manage model versions and easily perform inference with SQL on a daily basis

"By bringing familiar modeling capabilities to Snowflake, Snowpark ML

has enabled us to more rapidly iterate on our models, improving accuracy and operational efficiency."

- SVP of Engineering at Decile in webinar

INVISTA - Unified and Governed MLOps in Snowflake ML

Supply chain forecasting

Link to webinar

Link to Summit presentation

Cross-Team Dependencies

Multiple platforms and points of

failure

No structure in experimentation →

deployment

Less measurables per / business

vertical / project

Multiple architectures for ML & DL

deployment

DevOps style model re-training

Universal structure in

experimentation → deployment

Compute to the data

Great visibility for business on

usage & cost metrics / vertical

Custom alerts for failure

Ease in orchestrating dags

"Doing MLOps on Snowflake will reduce our deployment time from

months to days, even hours, all while reducing development cloud spend and ensuring model tracking and visibility."

- Data Science Leader at INVISTA in webinar

Ecolab - Sales Opportunity Predictions with Snowflake ML

Extend value delivery to Ecolab's customers by recommending product solutions that similar customers purchase using Snowpark ML KMeans clustering Diverse customer base driving accuracy issues with existing solution PaaS offerings required significant additional development. SaaS offerings pre-Snowflake offered limited customization 71x speed up for processing with Snowflake ML vs native Python on 10.1GB of data (12.6 seconds vs. 15 minutes with native Python) Saved ~ 4 weeks of development time with Snowflake ML 7 lines of code to create a custom model, train it and register it for reusability with Snowpark ML Modeling APIs The Snowflake Model Registry stores the ML model as a first-class schema-level object that anyone in our org can use

Cooke Aquaculture - Rapid ML Insights with Snowflake ML

Cooke Aquaculture is the largest private family-owned seafood company in the world that uses Snowflake ML to generate predictions for production metrics Scalability - building models on over ten years of raw data from over seventy sites stored in Snowflake

Link to blog

Unified Development
Environment: Everything was
contained within Snowflake from
raw data, data pipelines and ML
models.

Ability to scale compute resources on demand: No need to worry about local processing constraints.

Snowflake's powerful ML tools: Snowflake ML includes integrated capabilities for faster time to

Opportunities with
Snowflake ML

71x

Speed up for preprocessing and training with Snowflake ML compared to native Python Saved an estimated 4 weeks of development time with Snowflake ML solution on 10 GB of Data

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BAMA - Financial Forecasting Model with Snowflake ML

Bama-Gruppen AS, Norway's largest private distributor of fruit and vegetables, predicts invoice due dates at the time of purchase BAMA is exposed to currency risk - they buy their products in USD, EUR and GBP, but sell them in NOK Solution with Snowflake ML reduces cash flow-related losses by 35%

"The due date prediction model has significantly reduced our exposure to currency exchange rate risk, enhancing financial stability and forecasting accuracy"

- Jarle Gjerde, Group CFO @ BAMA Predicting Invoice Due

Dates with Snowflake ML

35%

Reduction in cash-flow related losses "The due date prediction model has significantly reduced our exposure to currency exchange rate risk, enhancing financial stability and forecasting accuracy" Jarle Gjerde Group CFO @ BAMA

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Classy - Rapid ML Insights with Snowflake ML

Classy is a giving platform that enables nonprofits to connect supporters with the causes they care about Classy uses Snowflake ML to harness the power of intelligence to help nonprofits understand their supports including:

• Better understanding

donors and how they discovered their organization

- Ability to tailor communications based on this knowledge
- Understanding the right opportunities for upgrade A small Data team building a ML service at a massive scale Modern data stack doesn't readily support MLOps Limited people to support new architectures Donation forms using the Intelligent Ask Amounts ML solutions saw 11% greater donation revenue in testing Now able to use compute and storage within Snowflake during the whole model development process in Hex notebooks Quickly train and evaluate models in a user-friendly syntax Able to register models to the Snowflake Model Registry Powerful hyperparameter tuning in only a few lines of code

S&P Global -

75% time savings by moving from PySpark on Databricks to Snowflake ML

At Lessmore, leveraging the Snowflake Model Registry has transformed our model development and experimentation process for our customer lifetime value forecasts. This shift has not only accelerated our innovation cycle but also reduced our costs by a factor of 10, while enhancing efficiency."

Moritz Schöne, Head of Data Science, Lessmore
 Moritz Schöne
 Head of Data Science | Lessmore

Blog link

Using Snowflake ML has enabled us to hit a big milestone in our data and Al vision to efficiently deliver true, one-to-one, personalized experiences to our customers. We've been able to achieve a 70% cost reduction and enhanced agility by moving from running hour-long inference jobs to predictions in near real-time."

Stefan Kochi CTO | Paytronix Blog link

3

Having tried Snowflake Notebooks on the Container Runtime, we can say the experience has been remarkable. The flexible container infrastructure supported by distributed processing on both CPUs and GPUs, optimized data loading, and seamless integration with Model Registry have improved our workflow efficiency."

Krishna Moleyar Analytics & Automation for IT Global Applications | Keysight Blog link

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I have really enjoyed using Snowflake Notebooks on Container Runtime for the flexibility and speed they offer. I am able to run my code without worrying about it time-ing out or variables being forgotten. Enabling PyPI integration, I also have the added benefit of using a wider range of Python packages, making my analysis and data science tasks more flexible." Krishna Moleyar Data Scientist | Avios Blog link

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For Analysts

SpartanNash - Retail Forecasting with ML Functions

Use historical sales data stored in Snowflake to produce year-long sales forecasts for 2023 – divided into 13 fiscal periods
Manual, Excel-based process
Prediction accuracy relied on institutional knowledge
Lower granularity predictions not possible (i.e., at department or item level)
Time commitment: For 183
locations and 10 districts – 400 hours per period, 5,200 hours per year

Fully automated process
Predictions rely on data, not
passed-down knowledge
Lower granularity predictions
possible
Model training takes 5 minutes
per week, on automated schedule
Accuracy improved from 71% to
88%

Slide deck

We've been using Snowflake's ML-based forecasting function for three months now and have saved hours of effort while generating more accurate forecasts than our previous process. Given our experience, we're exploring more ways to use Snowflake ML functions throughout SpartanNash.

Efficiently & accurately predicts daily sales across locations with ML Functions

88% The Snowflake ML

Forecasting function now runs automatically each week using Snowflake tasks, replacing 100 hours of manual effort. average forecast accuracy using Snowflake's ML Forecasting function, up from 71% accuracy from a previous method.*

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Snowflake Data Science - Lead Scoring with ML Functions

Snowflake needs help determining which prospects to assign to sales teams during annual planning - to maximize Snowflake revenue To do so, the Snowflake Sales Data Science team calculates a "propensity score" indicating likelihood of a prospect to convert to a customer - based on the historical success with similar prospects Pulling technographic, firmographic, and emplographic data in from multiple sources - only to move it out of Snowflake again for modeling
Using multiple third party tools
that required moving data out of
Snowflake – e.g., Jupyter
Notebooks, an ML vendor,
Tableau for visualizing results
By knitting together Snowflake
Notebooks, ML Functions and
Streamlit:

- 5x higher conversion rate with target accounts
- 1K hours of development saved
- 150K accounts assigned through strategic market expansion
- 70% efficiency improvements thanks to reliance only on Snowflake tools (no third party), no data movement, simplified ML development

Slide deck

Propensity Score Methods Evolution with ML Functions

Feature Gathering Modeling Deployment Tracking

Gather features from internal and data providers Preprocessing data and training models Infer trained model to make prediction on new data Monitor model performance and impact

Q2'22 Jupyter Notebook Snowpark UDFs Snowpark Stored Proc Tableau

* WIP: Full model completion is aiming to be tested and completed in 2024 Q2 © 2025 Snowflake Inc. All Rights Reserved

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${}^{\scriptscriptstyle \text{*}}\text{Numbers are from 2023}} Appendix$

© 2025 Snowflake Inc. All Rights Reserved End-to-End ML Workflow with Snowflake ML

Data lake Training dataset Snowflake Model Registry © 2025 Snowflake Inc. All Rights Reserved

Predictions

NAME OF COMPANY - Brief Use Case

Quote [optional]

- Title at company with link to asset