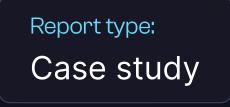
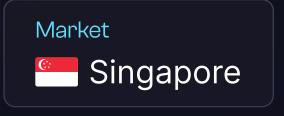
I PvX Partners

Case study on how KeyValue built a financial services platform providing nondilutive capital to support user acquisition strategies for gaming companies







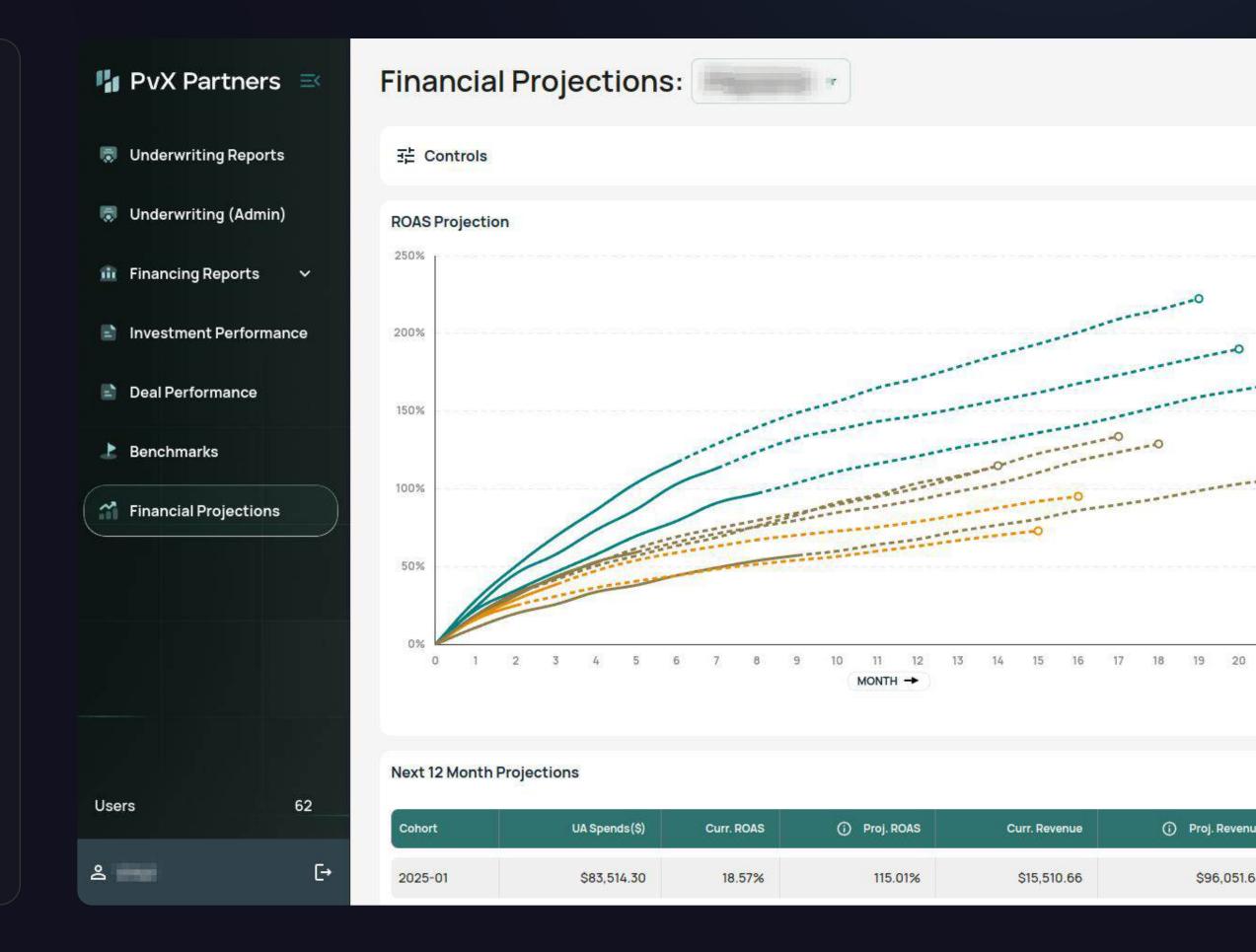


Problem statement

Build an intelligence & insights platform to understand the performance of all invested companies on a daily basis. This should enable PVX to monitor everything from marketing performance, revenue, and all other KPIs & business metrics of the invested companies that really matter. The platform uses predictive modelling and advanced machine learning models to forecast future performances, aiding proactive decision-making for PVX.

Underwriting Benchmarking Visualisation

Monitoring Financial projections





Key metrics

50+ Different games

GO+ Data pipelines 350+ charts to visualise data





10+ Data sources

Business impact

Improved investment decisions

Enabled PvX Partners to make datadriven underwriting and monitoring decisions, reducing risk and enhancing investment outcomes.



Predictive capabilities

Established a robust data foundation for machine learning models to forecast future performances, aiding proactive decision-making.



Operational efficiency

Automated data workflows with minimal manual intervention – lowering operational costs and errors.



Competitive insights

Provided companies with benchmarking tools to gauge performance against industry peers, fostering strategic growth.





Challenges

Scalable infrastructure •

Build a system capable of handling growing data volumes without compromising performance.

Enhanced data security •

Ensure compliance with data privacy laws, safeguard sensitive information, and build trust with partner companies.



Complex requirements

Understand and implement a large, distributed system.

• Optimised query performance

Enhance query speeds on BigQuery external tables using Parquet files.

Secure data visualization

Visualize data per business needs without cross-company data exposure.



Implementation

Orchestration

Implemented Apache Airflow (self-hosted) for job scheduling to reduce costs.

Query optimization

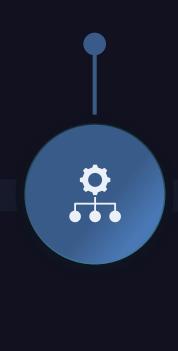
Partitioned Parquet files on frequently filtered columns to minimize data scanning.

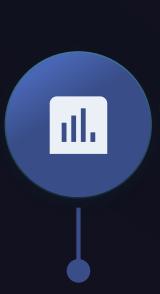
Cloud platform

Chose Google Cloud Platform (GCP) for its services like Dataproc, GCS, BigQuery, and Vertex Al.











Spark job management

Employed Dataproc batches for serverless, auto-scaling Spark jobs triggered as needed.

Data storage format

Used Parquet format in Google Cloud
Storage (GCS) and added as external
tables in BigQuery for querying.

Data visualization

Adopted Apache Superset (self-hosted) for its extensive chart options and ability to handle data security with roles, permissions, and row-level security.



Technology stack

