

Case Study Quality Reporting

Overview

A not for profit, rural, primary care network in Australia was required to report a list of 28 quality indicators determined by its state government, every 6 months, to qualify for government funding.

Challenges



Expensive

A significant portion of funding was spent on reporting on quality indicators.



Time consuming

Preparing a submission takes 6 months and required a full time consultant dedicated to this task.



Not Reproducible

Data was manually collated and the knowledge of how to create reports and submit wasn't properly documented and stored.

Approach

1

Data Ingestion

Using our technology, Piano, the data manager ingested the data in under three weeks of part-time work. Healthcare data ingestion using Piano is fast and mostly automated, and requires very little user intervention.

2

Data Transformation

The data was then cleansed, aggregated and standardised into OMOP* using our proprietary AI and ML algorithms. Medical concepts from source data are automatically mapped as opposed to current methods of manual mapping by a data scientist.

3

Data Analysis

Analytic workflows were created for each of the 28 quality indicators (approximately 30 mins - 4 hours per indicator). Daily and XML reports created using the platform's RESTful API

Results

A report for submission was created in under 2 weeks of part-time work, as opposed to the original timeframe of 6 months full time work.

Benefits



Significant time savings

2 weeks part-time vs
6 months full time



Reproducibility

Reusable workflows allow for quick and reproducible analytics

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