

TRENDS MARKETPLACE

Recommendation engine for music platforms

[Team 20\(Link to Video\)](#): Archit Agarwal, Viswanath Reddy Edunuri, Sirui Jiang, Yutong Liu, Wenyi Wang



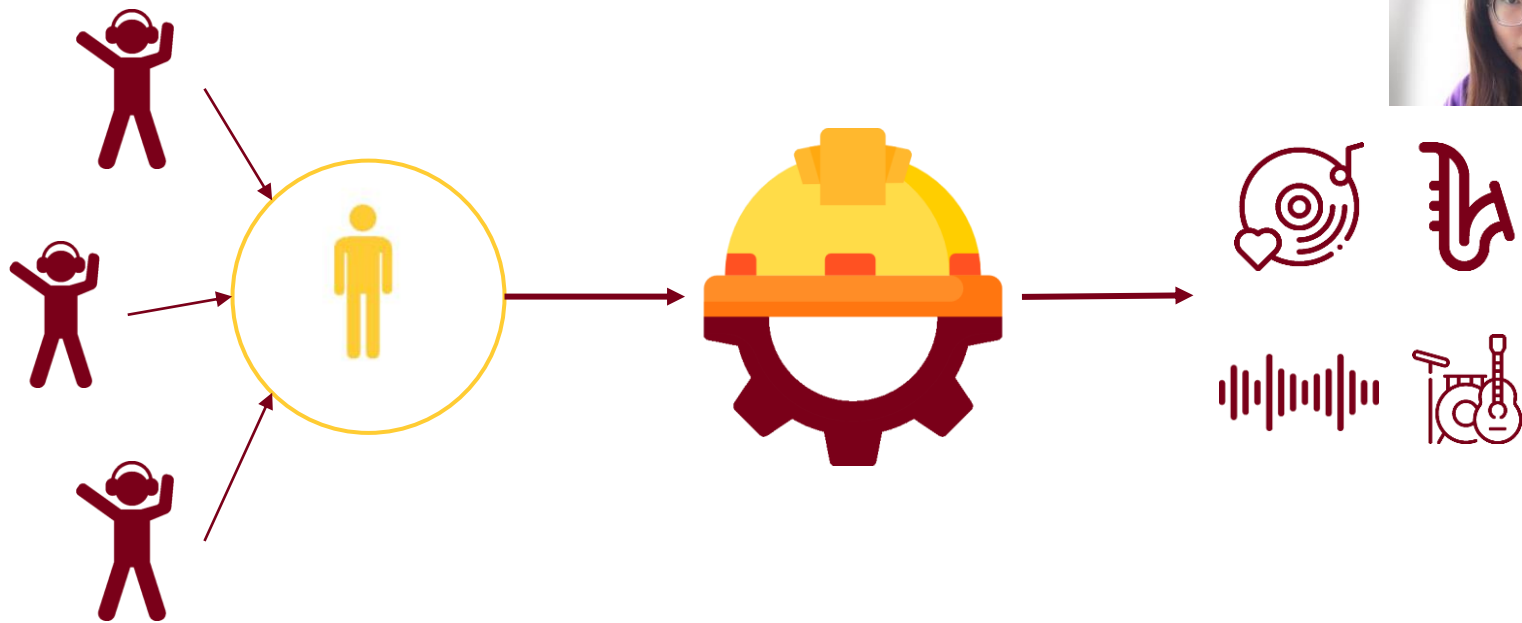
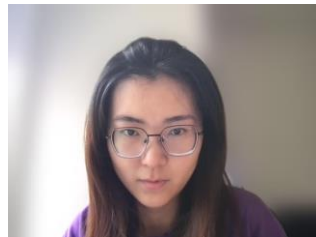
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Music streaming industry is expected to grow 9% YoY¹

- Expected revenue to increase by **\$37.8bn** year on year(average)¹
- Major markets:
 - USA (~10%)
 - China (~20%)
 - EU (~8%)
- Digital push since COVID-19
- Personalization and New music discovery



Recommendation Engine drives engagement by personalization and discovery

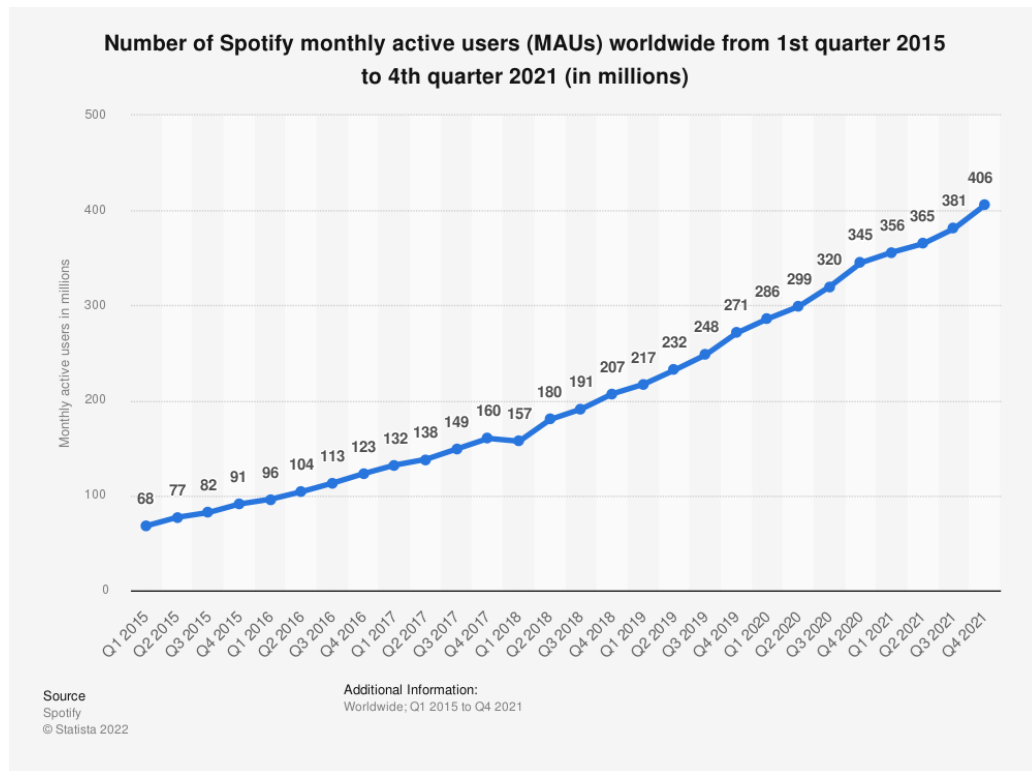


Identify similar customers

Recommend new music

Enable high engagement

Increasing users generate exponential data demanding compute, storage for recommendations



Users increased by 500%

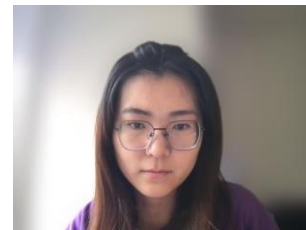
The number of users went from 46M-406M at the end of 2021

Data increased by 400%

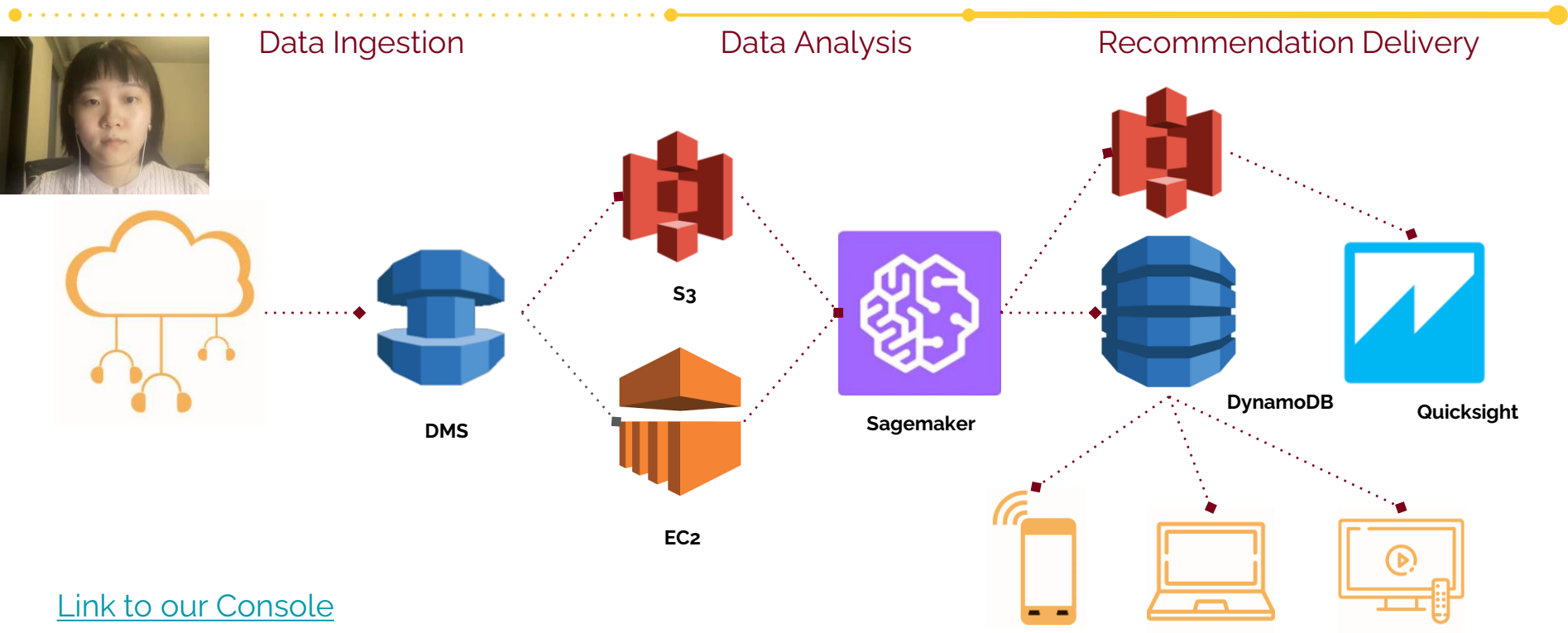
Spotify churns 10TB data per day for its analytical needs

Traditional data processing

A python based recommendation engine will take weeks to compile this much data and recommend next songs, artists



Cloud solutions can streamline recommendation delivery with scalability





Link to our Demo Video

[Link to our Console](#)



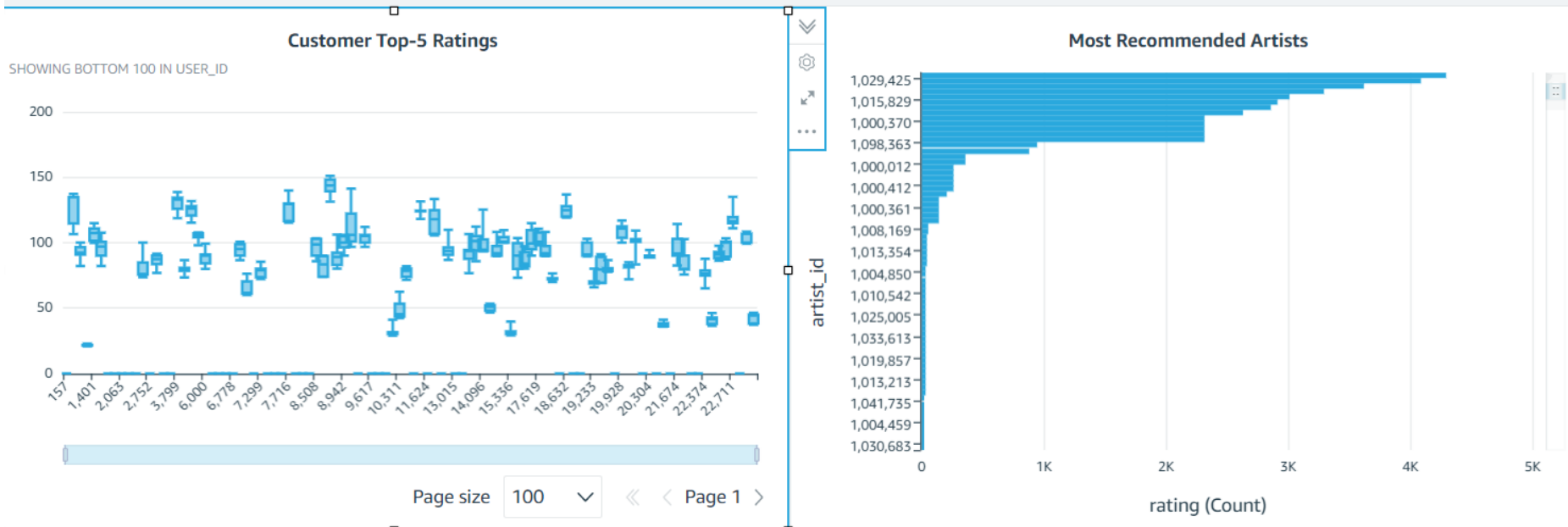
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Recommendations can be used to generate business insights using Quicksight

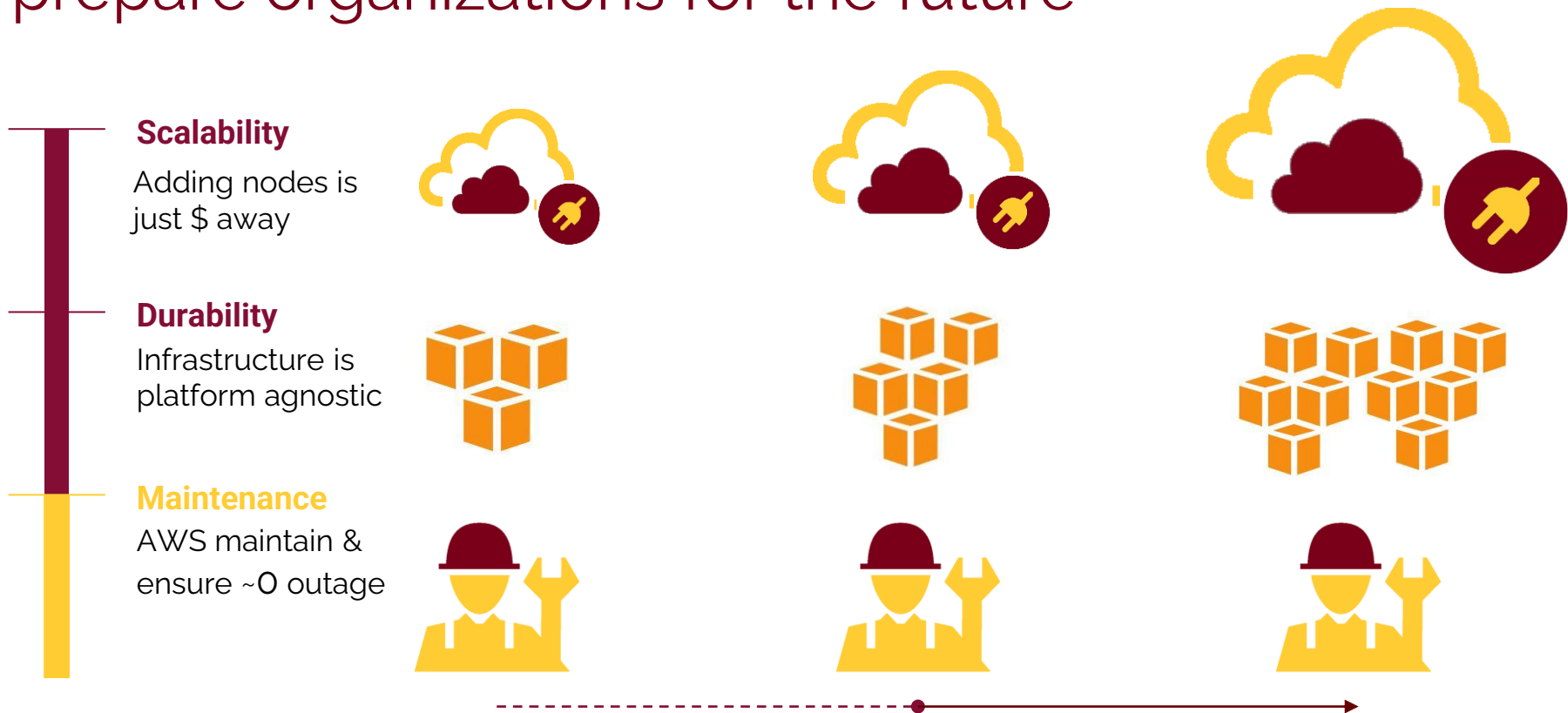


Test-Customer Behavior for Jazz Tracks

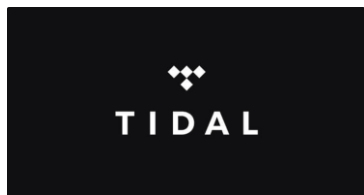


Our pipeline streamlines raw data to music recommendation delivery with business insights in <10min

Our solution solves current challenges and prepare organizations for the future



Ascending music streaming services can use our system and build upon it



saavn

KKbox

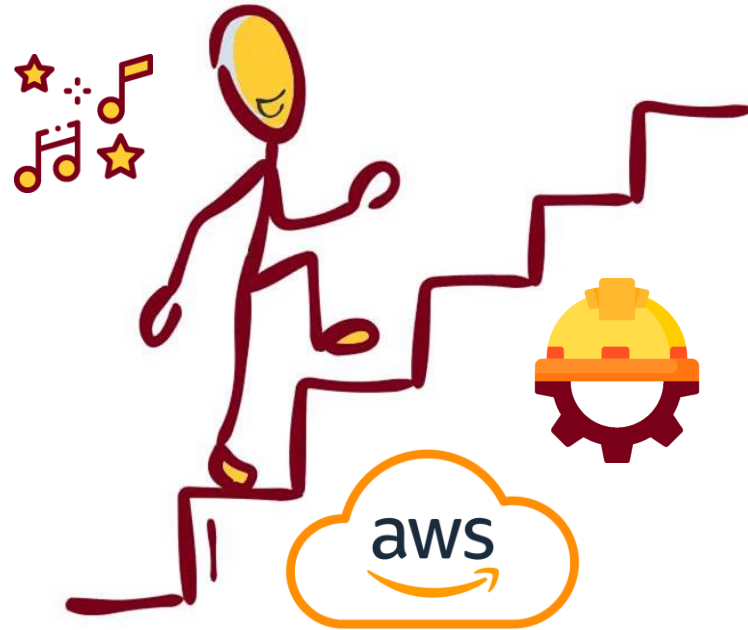


网易云音乐



\$30M

AWS enables streamlined recommendations for exponentially increasing data



Thank you!

[Link to our GitHub](#)

