TESSER
INSIGHTS

WHITE PAPER

DIGITAL TRANSFORMATION WITH TESSER INSIGHTS

A PREVIEW OF THE MODERN ANALYTICS ECOSYSTEM PIONEERED BY TESSER INSIGHTS

GAYATRI MOHAN | DIRECTOR, TESSER INSIGHTS

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CURRENT TECHNOLOGY LANDSCAPE

AN OVERVIEW

NAVIGATING DISRUPTIONS IN TECHNOLOGY

Technology disruptions are the norm of the day. Innovations have become commonplace today – new approaches to data management are identified and implemented. These could be by way of hardware, software, software techniques, process methodologies and so on. Cloud computing has become the standard model for most enterprises and businesses. Gartner has forecasted a 6.3% increase in the public cloud services revenue amounting to a total $257.9 billion, up $15 billion from 2019 {1}. 94% of the enterprises already use cloud computing {2}.

Just as a caterpillar metamorphizes surreptitiously into a butterfly, technology disruptions have become overnight phenomena that are hard to keep pace with.

While the latest technical innovations provide enhanced capabilities and insights for businesses, not every business is able to stay abreast of these innovations. The small and medium businesses operate with the focused agenda of improving their businesses by the most affordable methods. Can they catch up with the technology advancements for their business growth? Will small and medium businesses be able to cope with the heavy technological investments needed to adopt the latest technologies and cloud ecosystems?

6.3%
Studies forecast a 6.3% increase in public cloud services revenue.

$257.9B
Studies predict revenue amounting to a total $257.9 billion, up $15billion from 2019.

94%
94% of enterprises already use cloud computing.

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TESSER INSIGHTS – A TECHNOLOGY ECOSYSTEM FOR SMALL AND MEDIUM BUSINESSES

The inability to perform detailed self-service data analysis and insights brings in various other challenges. Investments in IT support may prove to be a tall order for the small and medium businesses as it brings in the need to depend heavily on IT support for execution. Introduction of additional stakeholders increases the response time and speed to market decreases. A secondary challenge of this conundrum is that the need of the business changes before the outcomes are realized.

A MODERN ANALYTICS ECOSYSTEM

A level playing field for small and medium businesses is the need of the hour. Tesser Insights provides this level playing field by eliminating the technology complexity from the business while ensuring that the latest technology trends are being utilized for business insights. The technology architecture is always updated to leverage the advantages of the latest technological innovation.

WHAT DOES TESSER INSIGHTS OFFER?

Tesser Insights provides a comprehensive technology ecosystem built on the Microsoft's cloud platform – Azure. The technology ecosystem consists of an end to end data orchestration platform integrated with a simple, yet powerful self-service portal for business users to perform their own data analysis. The self-service orchestration portal sits on top of the native Azure components but keeping the technical complexities transparent to the business user. All of this is offered in a single monthly subscription cost to the subscribers.

TESSER INSIGHTS - WHAT WE DO

A CLOSER LOOK

A ONE-OF-A-KIND PORTAL TO DERIVE INSIGHTS AT SPEED

One of the key advantages of the platform is that the business users do not need to have any technical knowledge nor have to invest in upskilling to the latest technology. The fact that the monthly subscription cost is defined upfront ensures that there are no surprises while adopting to the newer technologies. Additionally, the Tesser platform gives the user the right tools to view the outcomes of the exploration immediately and take better informed decisions.
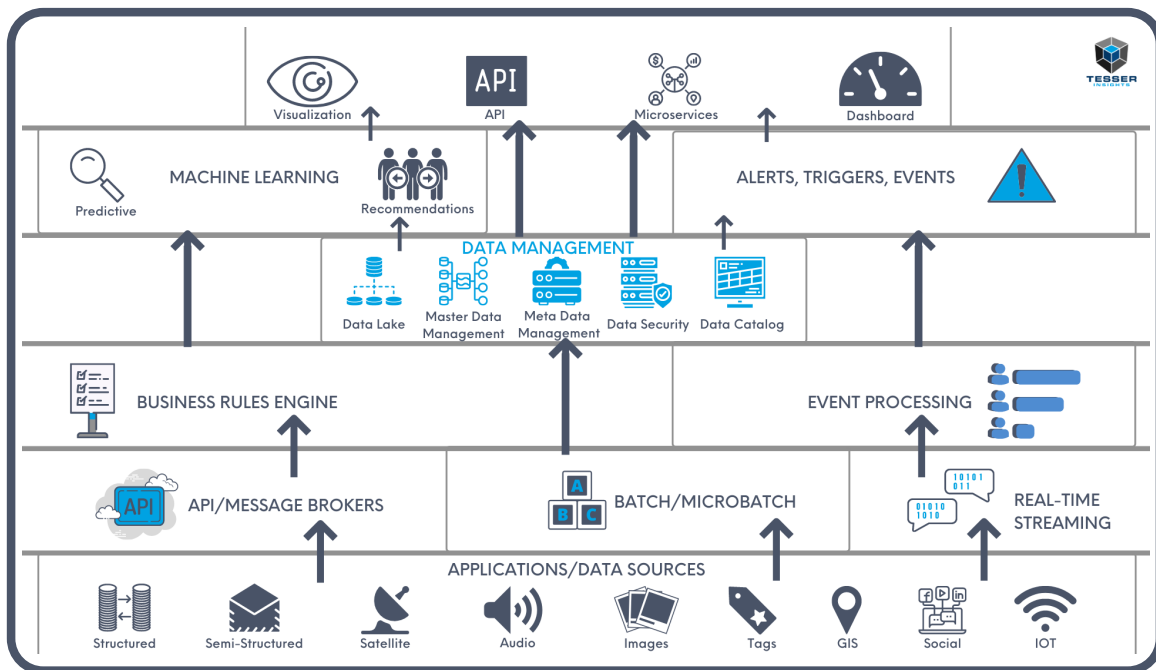

Fig 1. The logical architecture of the Tesser Insights Platform

The Tesser Insights platform is a step in the direction towards the Augmented Analytics, the future of analytics (as predicted by Gartner).

Cloud Services

Tech Stack

Tesser Self-Service Platform

Tesser Services

ACCESS ALL THIS AND MORE, WITH TESSER INSIGHTS' MODERN ANALYTICS ECOSYSTEM

OUR SELF-SERVICE PORTAL

AND WHY IT IS UNIQUE

FEATURES OF THE TESSER INSIGHTS SELF-SERVICE PORTAL

The Tesser Insights self-service portal provides a list of features as follows:

- A comprehensive data lake platform presents a catalogue of all the data elements – data sets, data transformations, data analysis and visualization in a single view.
- A simple data ingestion feature that enables onboarding business data in any form from any sources into a sandbox environment on the data lake.
- Automatic data profiling and analysis through our unique 'Tesser Actionable Insights' feature. This provides a quick insight on the ingested data.
- Data pre-processing, cleansing and transformation features that enables converting the data to the desired format for analysis.
- Viewing business insights through dashboards, charts and reports.
- Integration of the analysis outcomes to downstream applications through simple API calls.
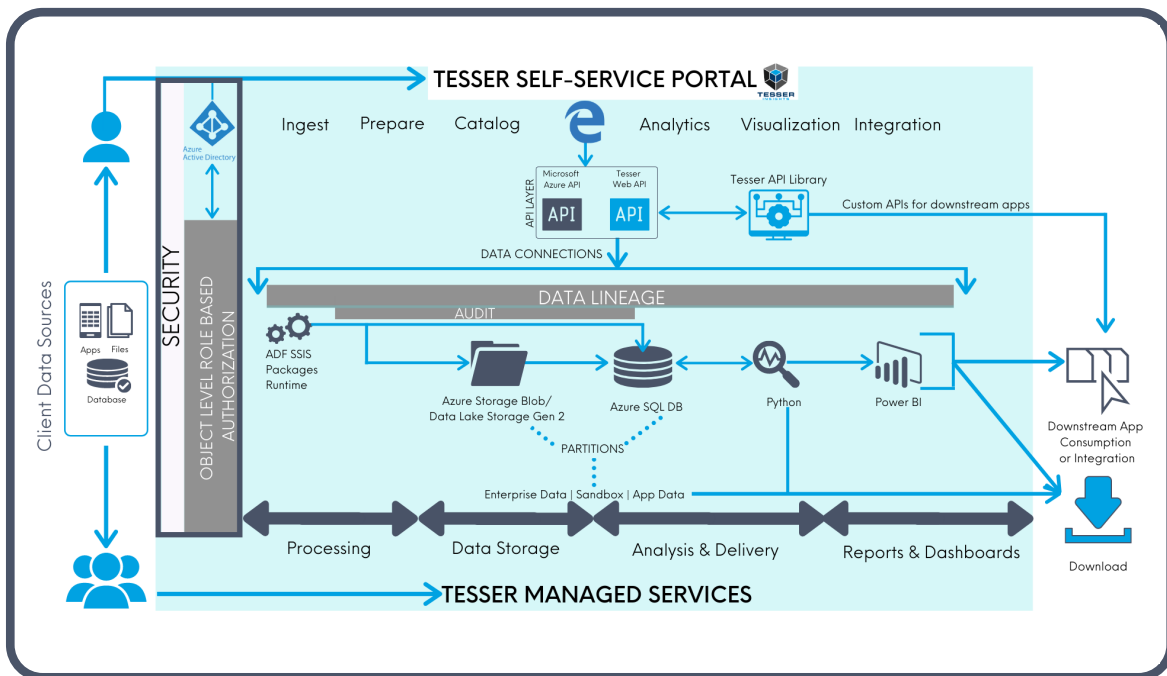

Fig 2. The technical architecture of the Tesser Insights Platform

Apart from the above, the portal also performs data quality checks and ensures data security and privacy through data masking capabilities.

ACCELERATING YOUR BUSINESS

WITH TESSER INSIGHTS

HOW DO BUSINESSES BENEFIT FROM THE TESSER INSIGHTS PLATFORM?

Not many tools exist in the market today that can display a complete data orchestration capability. Gartner, in one of their research papers, mentions that SAP Data Intelligence to deliver this capability {3} but most other tools fall into the data integration capabilities and do not lend themselves to an end-to-end ingestion through insights derivation model. The uniqueness of the Tesser Insights self-service portal is such that it sits on top of the underlying technology that is not proprietary (black-box). This provides a lot of comfort to the businesses during decision making – if the data orchestration layer is removed, all the data and underlying components are retained. This eliminates a huge risk in terms of decision making on the choice of the data platform.

ONBOARD BUSINESS DATA WITHOUT DELAY

The standard processes followed in most business organizations in bringing new business data always poses challenges from IT. A series of steps and approval processes must be followed before onboarding this new data and it introduces an inherent delay. Sometimes these datasets are brought in purely for exploration purposes and may not need to reside in the enterprise schema forever. With the Tesser Insights platform, the business user can just onboard the new data through the Ingest feature and bring into on the sandbox. Once in the sandbox, the data can be married with any of the existing enterprise data. When the user is convinced on the need of the dataset for enterprise level use, it can be moved simply into the enterprise schema. This eliminates the lead time, and the action is taken at the speed of thought.

> " the uniqueness of the Tesser portal is that it sits atop underlying technology that is not proprietary "

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ACCELERATING YOUR BUSINESS

WITH TESSER INSIGHTS

SELF-SERVICE BASED CUSTOM DATA INSIGHTS

With the business data onboarded quickly into the Tesser Insights Platform's data lake, the business user now has access to perform any kind of wrangling capabilities through the **Cleanse** and **Transform** features. These features provide robust capabilities to transform the data to suit the need for your analysis. The **'Analyse'** feature provide the capability to perform advanced analytics on the datasets. This feature is useful primarily for data analysts who also work as data scientists. The **'Tesser Actionable Insights'** is a unique feature that performs automatic data analysis and derives insight and delivers it to the user by way of simple charts and inferences.

DATA WAREHOUSE MODERNIZATION

Gartner states that the future of the Database market is the cloud. 75% of all databases will be deployed or migrated to the cloud by 2022 as the most common use of the databases is for analytics {4}. This states that the Data warehouses will find their new home in the cloud. As more databases become analytics focused, the variety and volume of data increases exponentially. This poses challenges to the standard well defined data warehouse models. Data warehouse modernization is the ability to provide a data warehouse environment to meet quickly changing business requirements and to provide support for new data sources and onboard new solutions without lead time.

The uniqueness of the Tesser Insights platform is the ability to not just enable data warehouse modernization but also enabling it to perform and deliver rapid insights on a single self-service portal without switching to other tools. The **Data Catalogue** provides a single point of entry to view data residing in the data warehouse in various locations irrespective of the destination type. Using this single entry point, the users can have a consolidated catalogue view of all the data sets in the data warehouse residing in multiple locations.
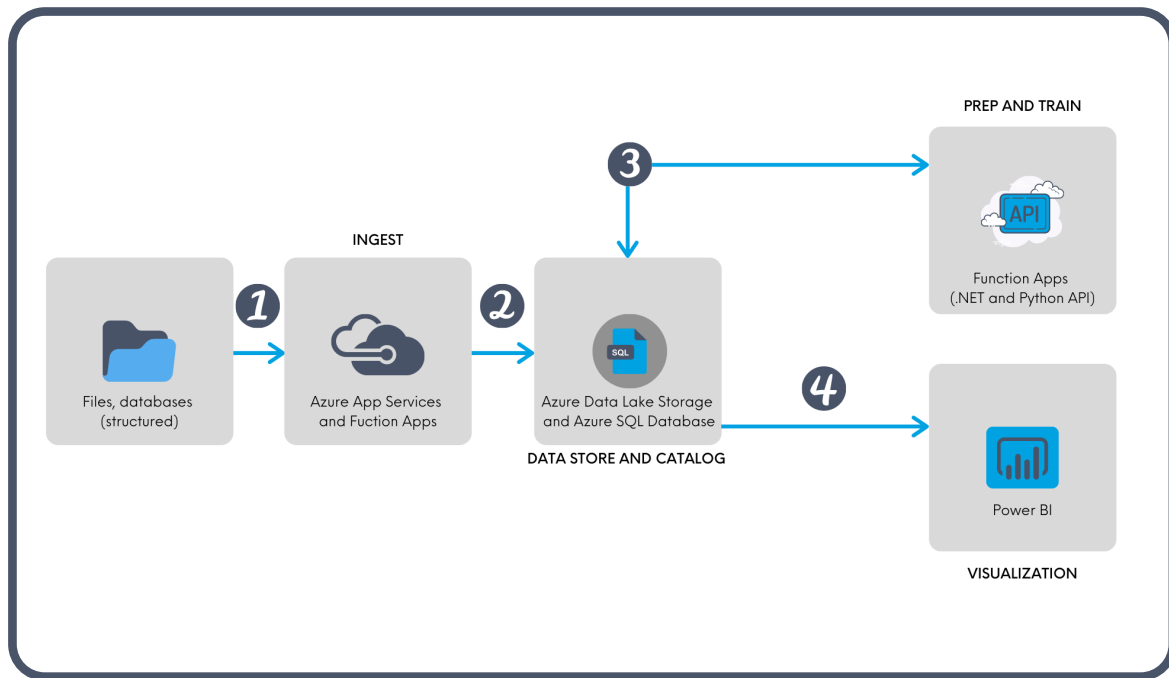
PAVING THE WAY
FOR DIGITAL TRANSFORMATION

PREP AND TRAIN

Function Apps
(.NET and Python API)

INGEST

Files, databases
(structured)

Azure App Services
and Fuction Apps

Azure Data Lake Storage
and Azure SQL Database

DATA STORE AND CATALOG

Power BI

VISUALIZATION

Fig 3. *Untitled figure [to be labelled]*

A ONE-STOP SOLUTION FOR BUSINESSES

Tesser Insights delivers analytical business insights to operational systems, at speed, in a subscription model, for small and medium businesses while keeping the complexity out. Tesser Insights develops and integrates business analytics, the key ingredient in any digital transformation, on a ready-to-use data lake platform supported by a range of managed and concierge services. One platform, one subscription, one vendor, one price and one place for all the analytical needs, is the mantra of Tesser Insights.

As our motto goes, *focus on your business and leave the technology to us!*

PAVING THE WAY

FOR DIGITAL TRANSFORMATION

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PLATFORM

SUBSCRIPTION

VENDOR

PRICE

PLACE

GET STARTED
TODAY

📞 +1 470-875-2982

🌐 TESSERINSIGHTS.COM

in COMPANY URL: TESSERINSIGHTS

✉ INFO@TESSERINSIGHTS.COM

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