iVentura

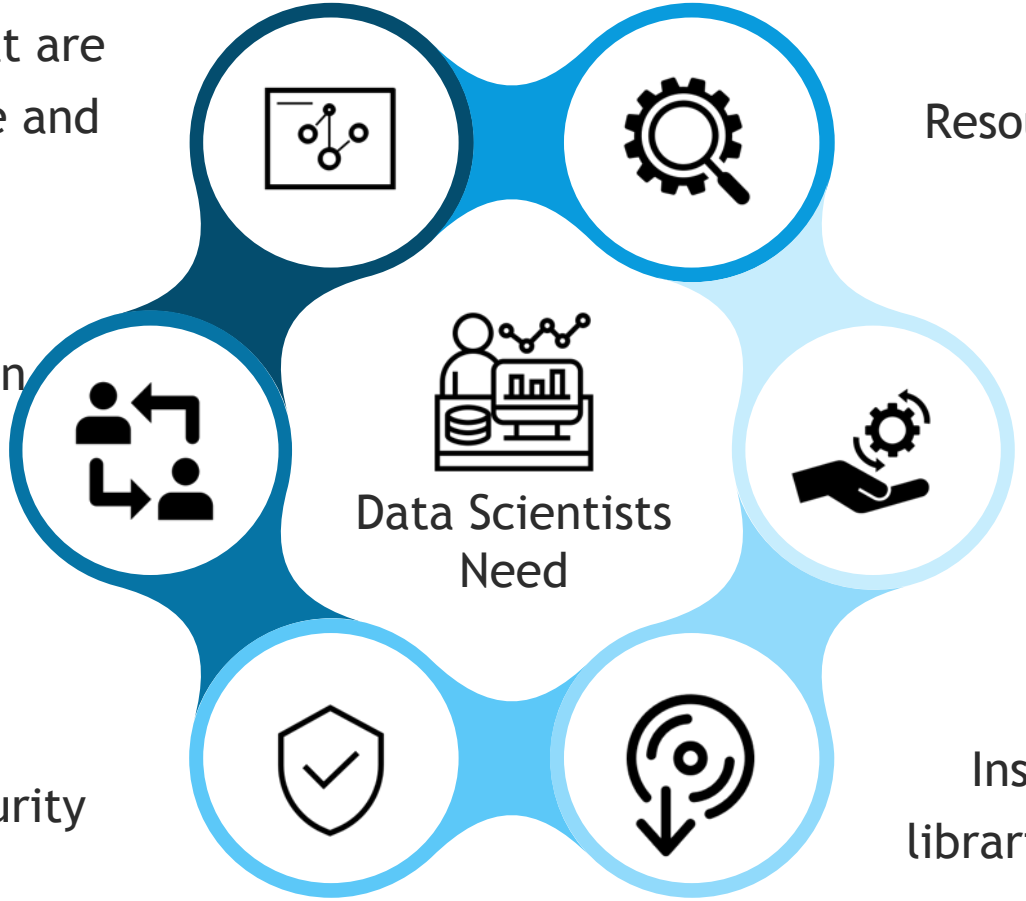
The Data Detective

Need of the hour

Visualizations that are easy to distribute and Consume

Resources (Mem, CPU and GPU)

IDE with Collaboration Capabilities



A Way to efficiently manage resources

Security

Installation of libraries & runtimes

SOLUTION

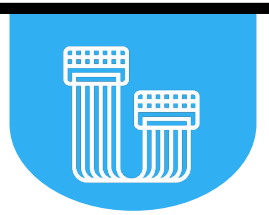
iVentura Machine Learning EcoSystem

Takes Infra Provisioning out of the Equation

- Data Scientists can Focus on what they are good at – ML Modelling

Built on Elastic Resources

- Consume only as much as needed
- Consume only when needed
- Release to pool to be used where needed



All inclusive IDE where Data Scientists can

- Install and upload libraries
- Collaborate with other teams
- Code in Python
- Integrate with Source Systems
- Build Models in a Secure environment
- Quickly Deploy and share models as URLs – within minutes

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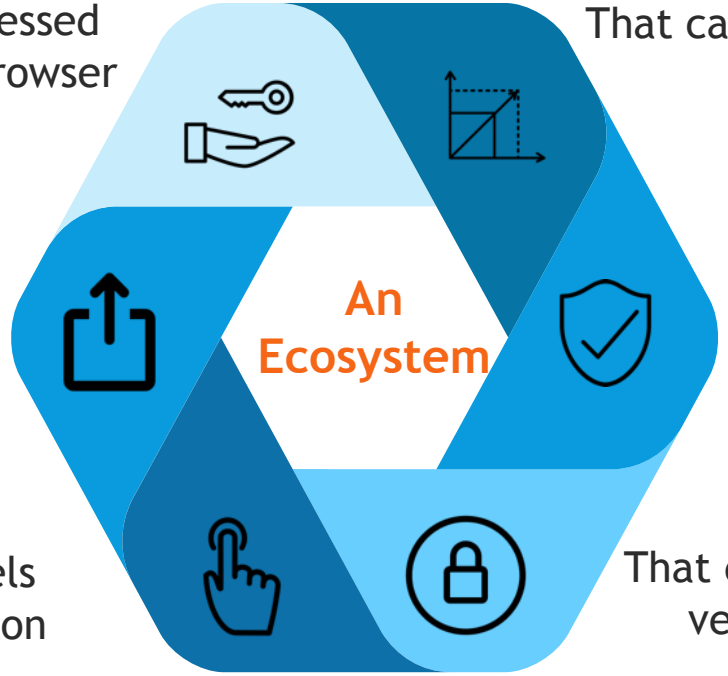
iVentura Value Proposition

Rapidly makes Data Science teams productive

That can be accessed anywhere on a browser

That can scale

That can easily share visualizations as URLs



That is Secure

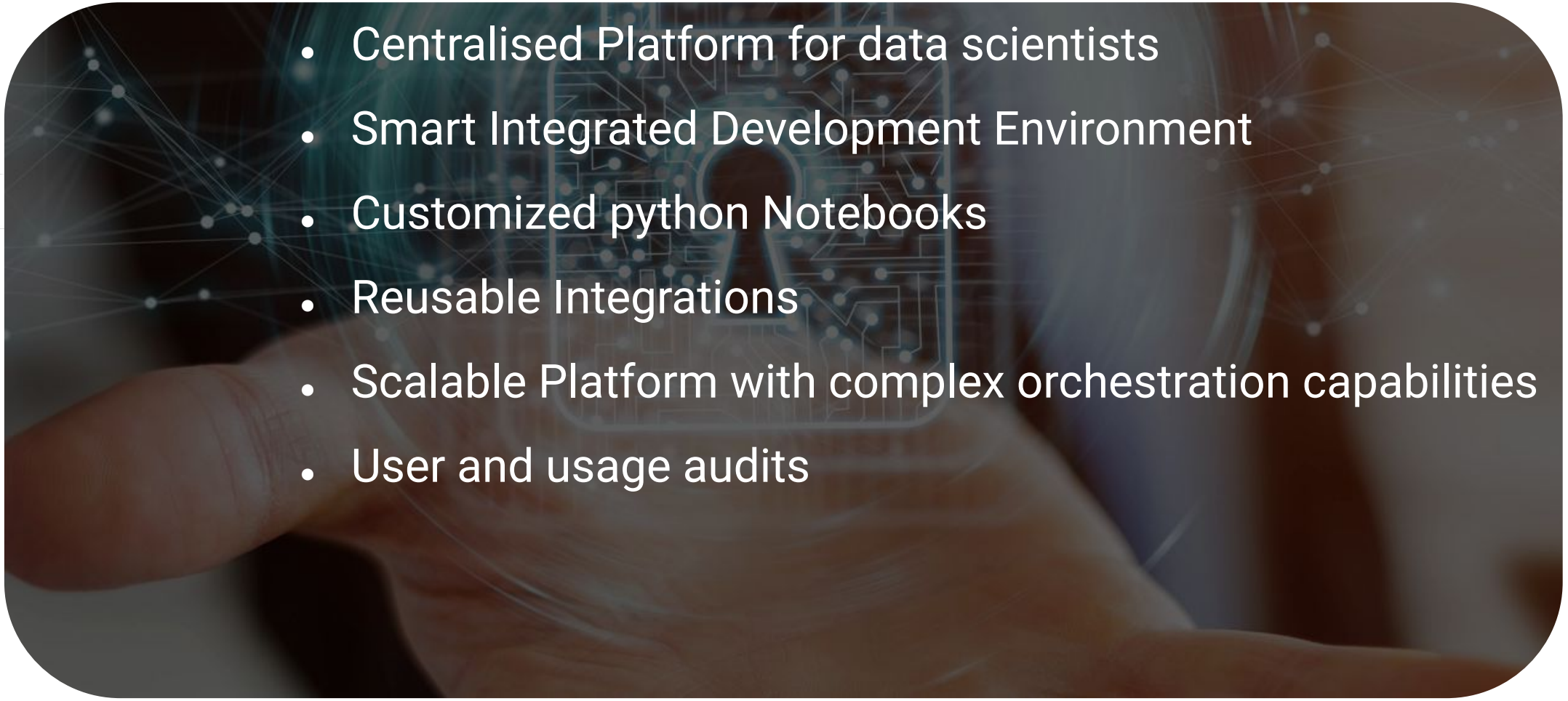
That deploys Models on a click of a button

That does not have a vendor lock-in

Solution Overview

- Perform application/model deployment in a repeatable, scalable, and resilient manner
- Provide robust capabilities to manage application lifecycle and development workflows
- Provides self-service, build and deployment and automation
- Smart resource management and utilization through Red Hat OpenShift deployment strategies
- Provides additional features like security, storage, networking, monitoring, and observability make it well suited for enterprise environments.
- Simplified access to underlying infrastructure

What does iVentura Provide?



- Centralised Platform for data scientists
- Smart Integrated Development Environment
- Customized python Notebooks
- Reusable Integrations
- Scalable Platform with complex orchestration capabilities
- User and usage audits

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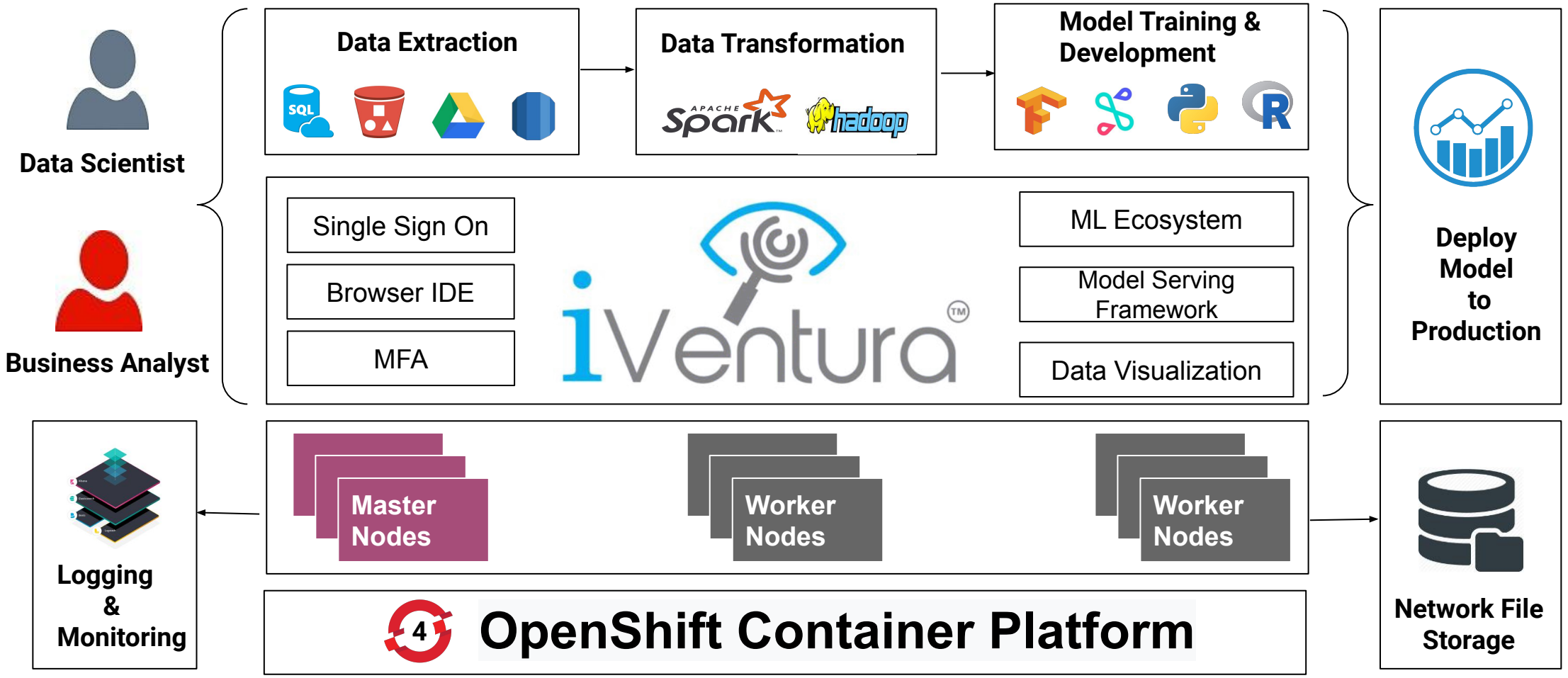
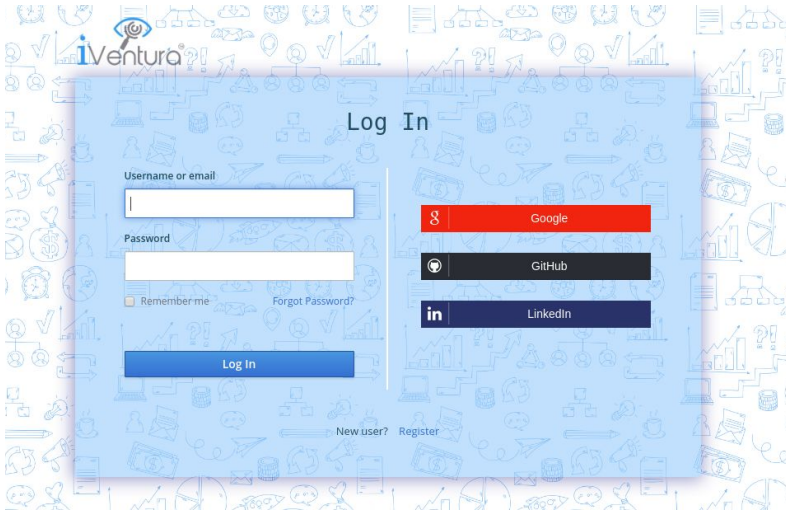
Why MLPaaS on OpenShift?

- Helps in building, learning and deploying Machine Learning at scale
- Offers ready-made generic components and services for ML and AI technologies
- Solves business problems without the risk of failure
- Concerns of data pre processing, model training, model evaluation, API and data visualization addressed

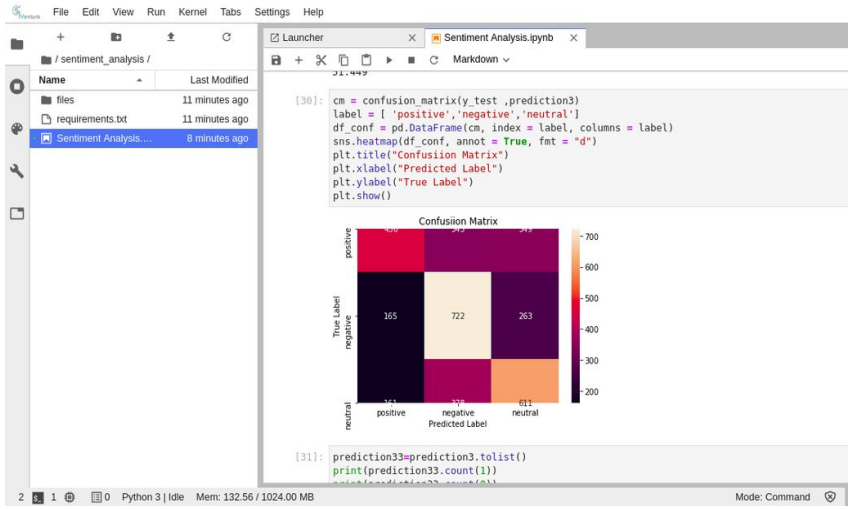
High Level Architecture



iVentura Single Sign On

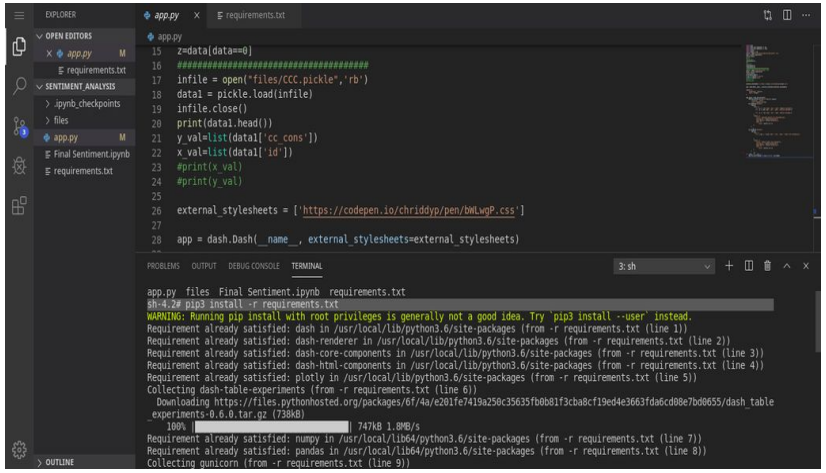


Machine Learning Ecosystem

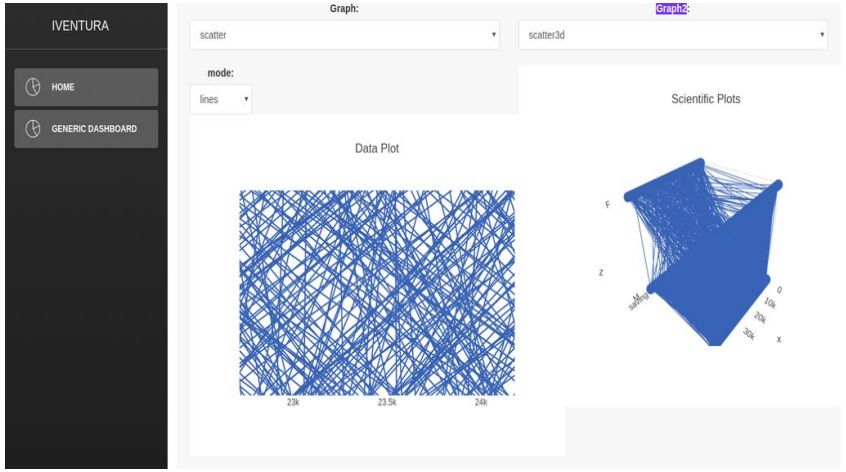


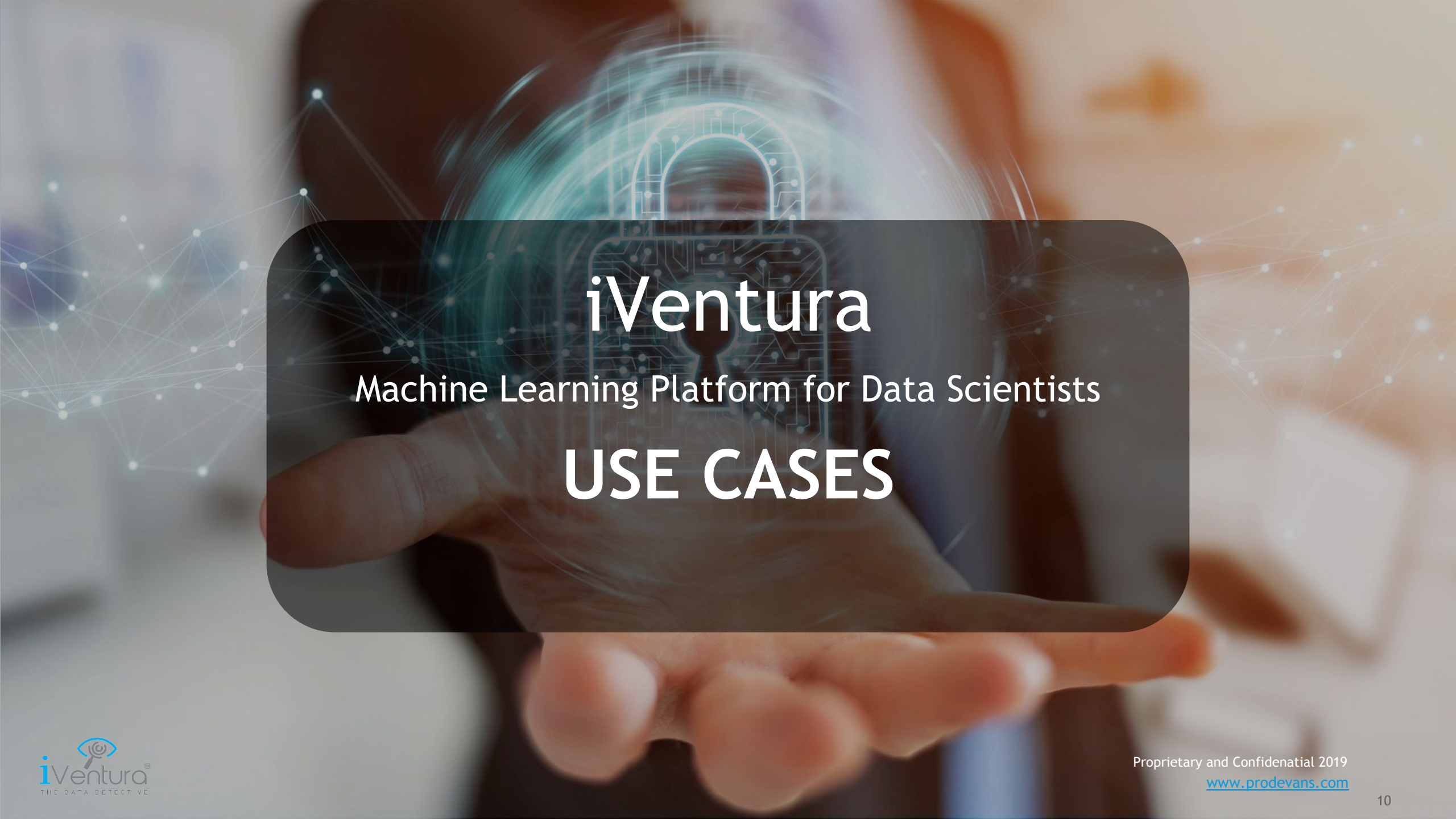
IDE

Model Flow Engine



Data Visualization





iVentura

Machine Learning Platform for Data Scientists

USE CASES

iVentura
THE DATA DETECTIVE

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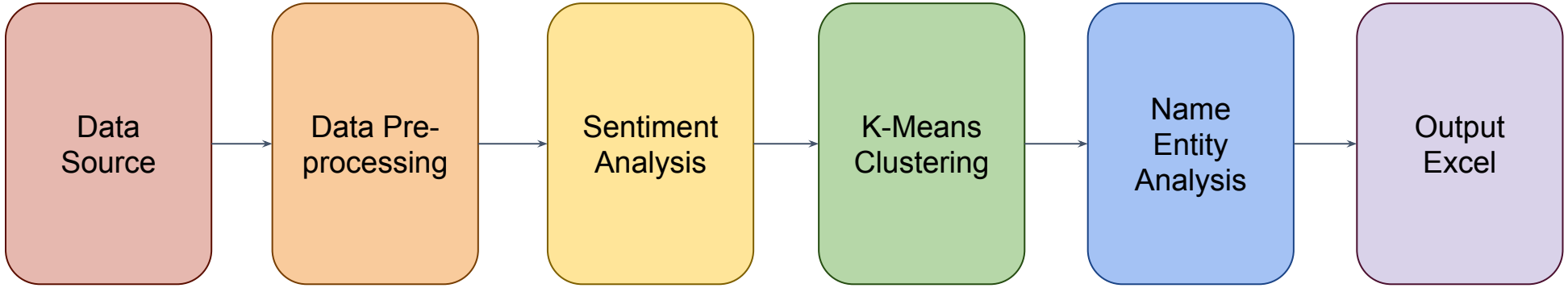
www.prodevans.com

Sentiment Analysis for Global Fund Provider

End Customer	Problem Statement
Insurance Company North-America	Extract information from the text data using NLP. Text should be converted into structured data and stored in a data store

Solution Workflow



ACCOUNT_NO	CUSTOM_INSTRCTN_TX
	The firm of [redacted] has been approved for [redacted] Firm code [redacted] in the state of [redacted]
	Senior Management authorized the use of Law Offices [redacted] claims. [redacted] has the authority to select defense counsel in all other jurisdictions except those states where counsel has been specifically designated, unless the insured, at its option, chooses to use a staff or panel counsel firm.
	[redacted] when claim is assigned to defense counsel. Include the name and phone number of the defense attorney.
	[redacted] when claim is assigned to defense counsel. Include the name and phone number of the defense attorney.

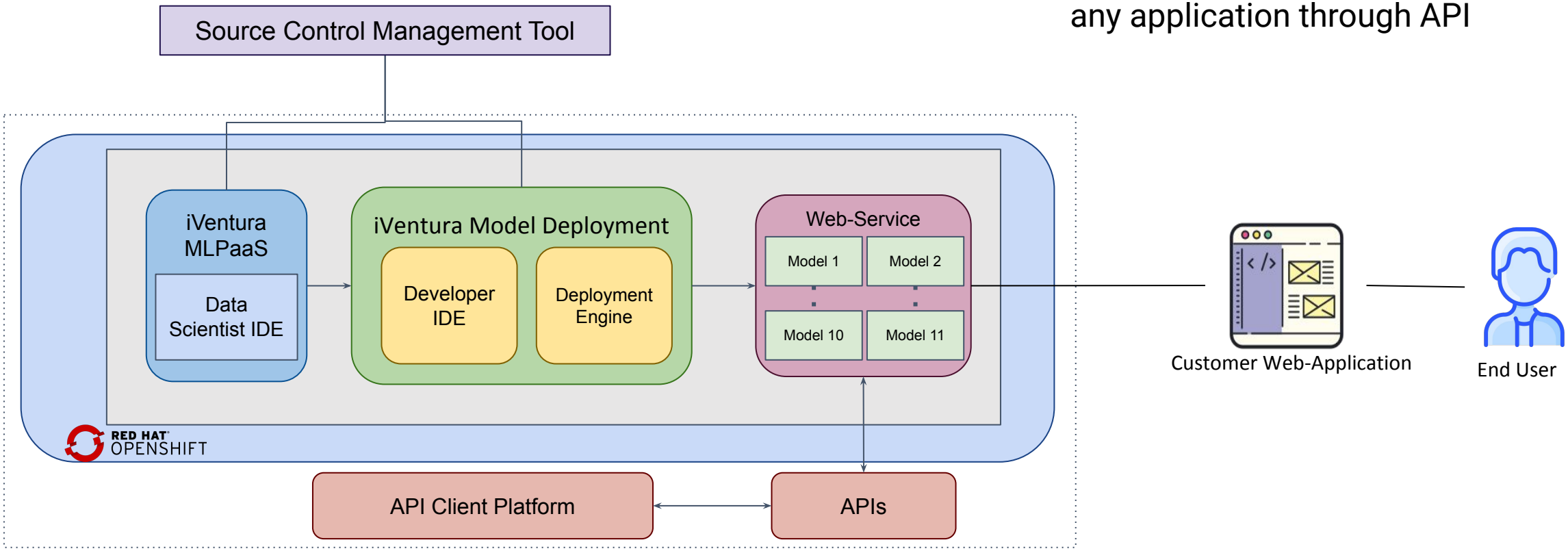
Input

SNO	ACCOUNT_NO	CUSTOM_INSTRCTN_TX	Cleantext	TFIDF_cluster	sentiment_cluster0	Firm_Code	ZIP_CODE	Email_ID	contact_no	Address	PERSON	ORG	GPE
0	[redacted]	[redacted]	[redacted]	0	neutral	0	0	0	0	0	[redacted]	[redacted]	0
1	[redacted]	[redacted]	[redacted]	0	negative	[redacted]	0	0	0	0	[redacted]	[redacted]	[redacted]
2	[redacted]	[redacted]	[redacted]	0	neutral	0	0	0	0	0	[redacted]	[redacted]	0
3	[redacted]	[redacted]	[redacted]	0	positive	0	0	0	0	0	[redacted]	[redacted]	0
4	[redacted]	[redacted]	[redacted]	0	positive	0	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
5	[redacted]	[redacted]	[redacted]	0	positive	0	0	[redacted]	0	0	[redacted]	[redacted]	0
6	[redacted]	[redacted]	[redacted]	0	neutral	0	[redacted]	[redacted]	[redacted]	0	[redacted]	[redacted]	[redacted]
7	[redacted]	[redacted]	[redacted]	0	neutral	0	[redacted]	[redacted]	[redacted]	0	[redacted]	[redacted]	[redacted]
8	[redacted]	[redacted]	[redacted]	0	neutral	0	[redacted]	[redacted]	[redacted]	0	[redacted]	[redacted]	[redacted]
9	[redacted]	[redacted]	[redacted]	0	neutral	0	[redacted]	[redacted]	[redacted]	0	[redacted]	[redacted]	[redacted]
10	[redacted]	[redacted]	[redacted]	0	neutral	0	[redacted]	[redacted]	[redacted]	0	[redacted]	[redacted]	[redacted]

Output

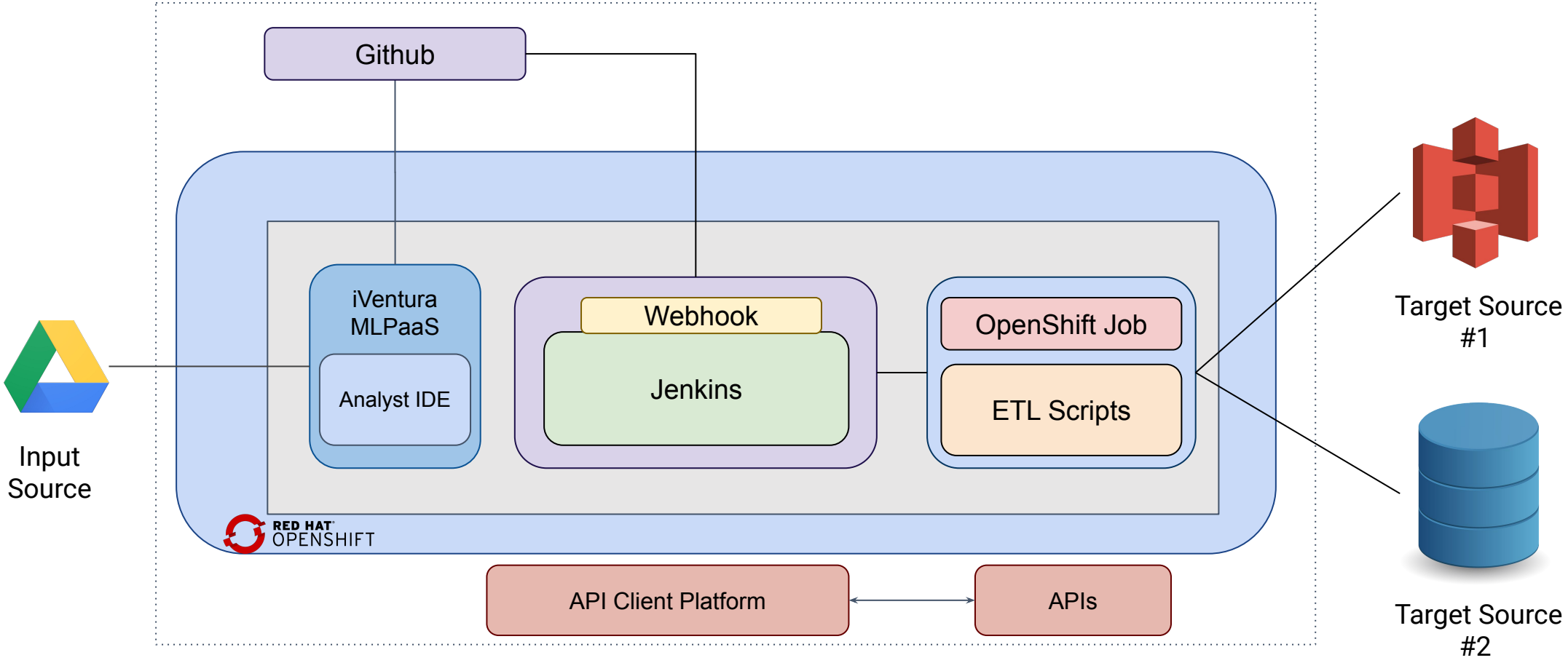
CARMa (Computer Assisted Response Matching)

- Detect similarity of database answer with user answer
- Developed for performing text similarity for text-based interviews
- Suite of ML models to select based on use case
- Web Service that can be connected to any application through API

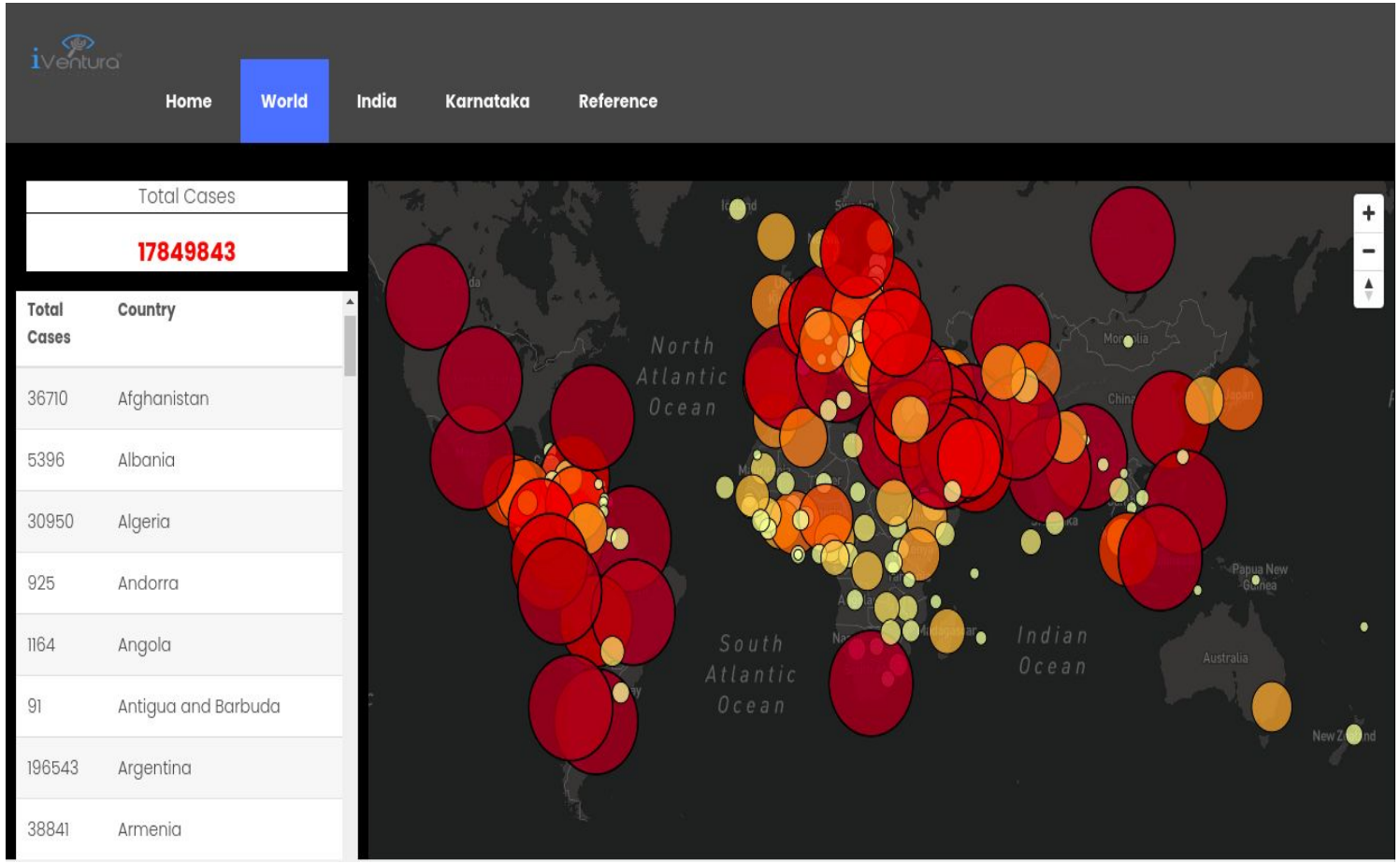


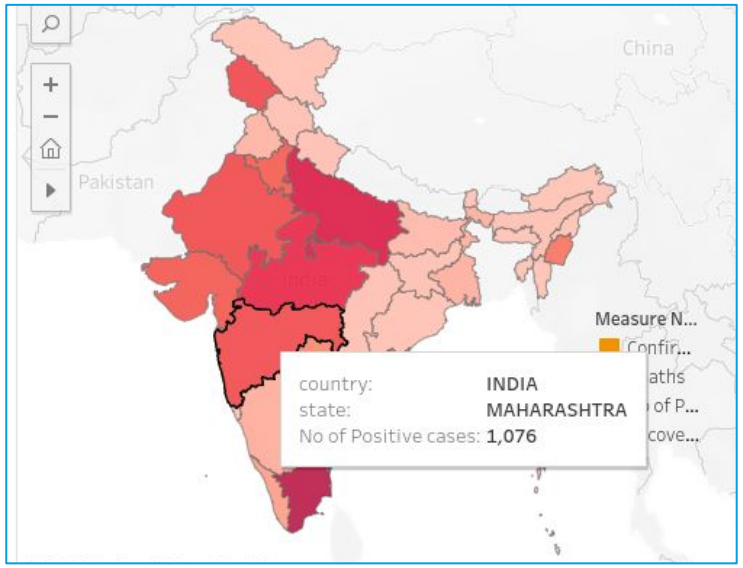
Dynamic ETL Service

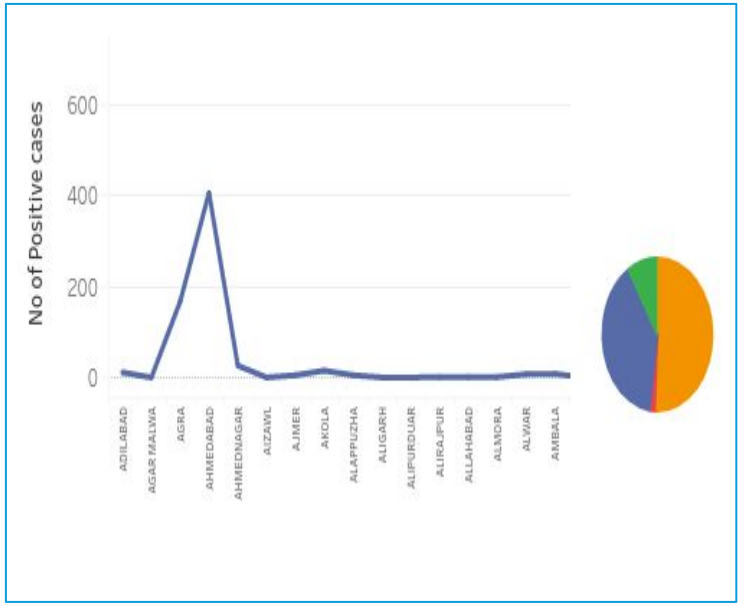
- Extract, Transform and Load inputs files based on user input scripts
- Customizable ETL scripts to cater to changing requirements
- OpenShift jobs to delete pod on successful ETL workflow completion
- Input Data Source can be S3, RDBMS, GDrive



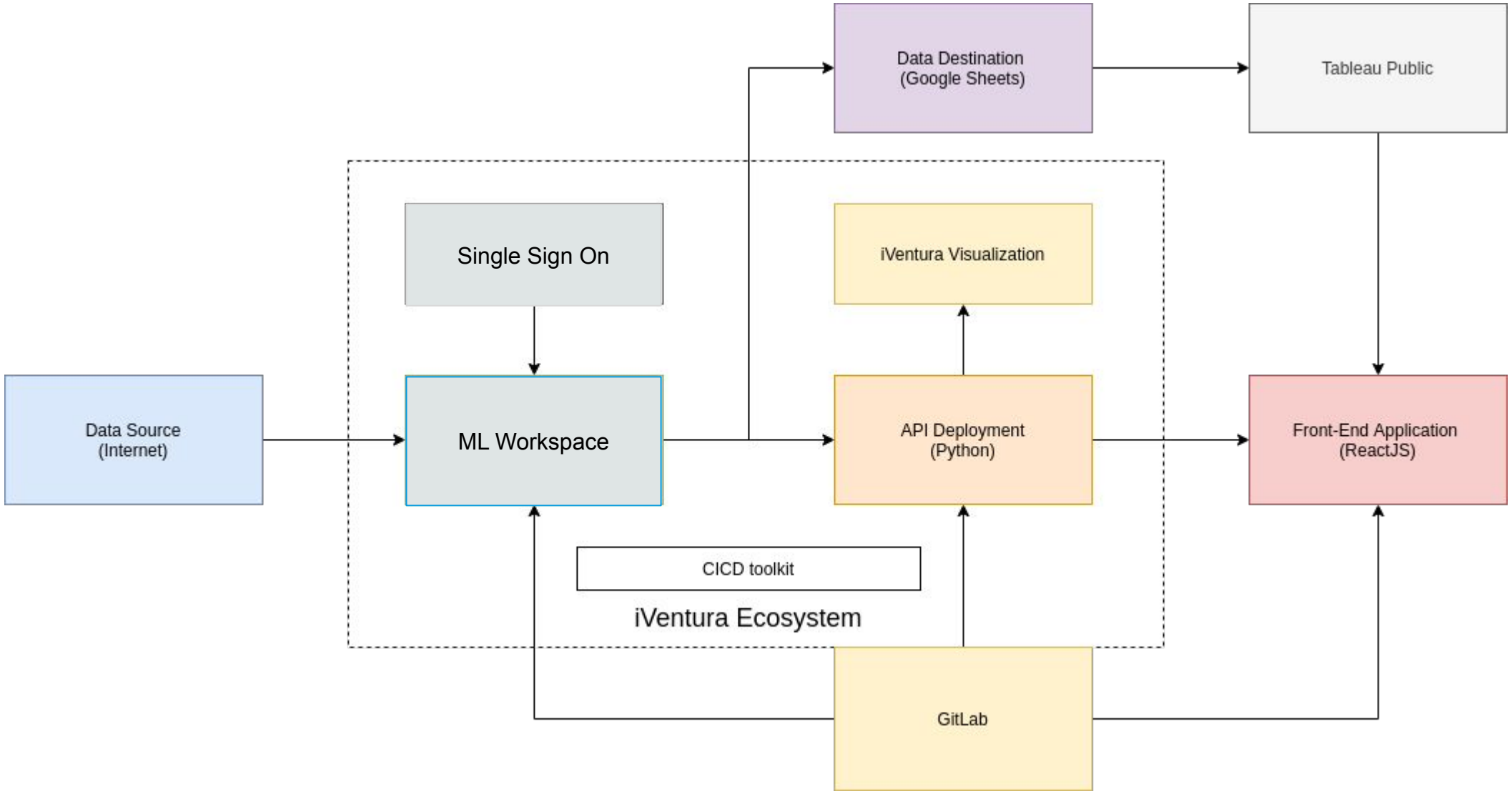
COVID-19 Case Tracker







COVID-19 Case Tracker - Architecture



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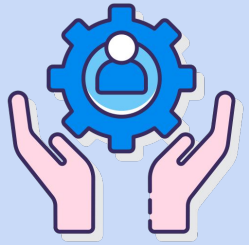
iVentura Revenue Model

	Perpetual Model	Managed Service Model
		
How it works	• One-time license fee (Software support, new features included)	• Annual Subscription fee (Subscription support, new features included)
Feature Development	• iVentura RoadMap	• iVentura RoadMap
iVentura Support	• Yes (for bug fixes until EOL/EOS)	• Yes
Software Assurance	• Optional Item (Priced Separately)	• Included (SLA-driven)

iVentura Revenue Model

SUBSCRIPTION + SUPPORT PLAN	Basic	Premium
PRICE	$459.99 Monthly Plan	$959.99 Monthly Plan
GPU Integration	0	1+
Cores	✔ Upto 6 CORES	✔ Upto 16 CORES
Ram	✔ Upto 64 GB	✔ Upto 256 GB
Virtual CPU	✔ Upto 12	✔ Upto 64
Support	8x5 limited Support	24x7 unlimited Support
Subscription	$3000 one time subscription for Software, Installation, Configuration, First Time Onboarding & New Code releases	

THE TEAM

Deepak Mishra
Founder & CEO, Prodevans Technologies

More than 19 Years Experience in IT Infra
Held Senior Positions Leading IT Teams in
Bank of America & ANZ
Transformational Leader
Product Owner of Cloud Technologies

Srinivas Rayarao
Head APAC & Product Owner

More than 19 Years Experience across US & India
Held Senior Positions Leading IT Teams in
Bank of America, Bank of New York Mellon & ANZ
MS in Manufacturing from Penn State University
MS in IT from Virginia Tech

Thank You

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