***Important Note:* *This release notes is only for internal circulation. Please avoid sharing this with any external entities. We are coming up with Web based version for sharing with them.***

 Team Exponential AI is thrilled to announce the release of Enso 9.0.x -  the latest release of Enso. Enso  9.0 has been validated and the 9.0.x environment will be made available for future solutions starting July 1, 2020.

Our latest release improves on many features since the last release in February 2020 – 8.5.

*-Improvements for Key Value Pairs and Tables detection models*

*-In-house annotation tooling to create training data for Document elements faster*

*-Enhancement of intelligent extraction through assisted extraction*

*-Enabling a direct integration between git and faas for a more collaborative and version- controlled development experience*

*-Supporting execution of models built using Tensor flow 2.0*

*-Native platform support to calibrate confidence score models to training data*

*-Several bug fixes around user experience on Canvas and performance of core platform services*

Please find below the key features that have been added in this release:

|  |  |
| --- | --- |
| SOLUTION ORCHESTRATION |  |
| **FEATURE** | **VALUE TO USER** |
| Self-service Model building for domain object confidence scores | * higher accuracy of confidence scores leading to better systemic routing of documents for review leading to eventual automation |
| Processing Logs with failure detection | * Enables the solution engineer to trace document lineage across pipeline as well as pinpoint points of failure effectively |
| Additional turnkey solution (candidate selection) | * Additional end-to-end solution which demonstrates the stability and accuracy of native document processing capabilities |
| INTELLIGENT EXTRACTION |  |
| **FEATURE** | **VALUE TO USER** |
| Annotation tooling for faster test data preparation | * Reduce the time taken to create training data and lower errors due to prescriptive nature of tool |
| Assisted Extraction | * Higher accuracy of document extraction models when calibrated to solution specific data |
| Inclusion of Document class | * Train and configure the model with different types of document groups under a same domain object to reduce the human intervention in the document extraction process |
| ML OPS FEATURES |  |
| **FEATURE** | **VALUE TO USER** |
| TensorFlow 2.0 | * Improves the flexibility to the user by Supporting execution of models built in TensorFlow 2.0 |
| Intelligent Model version selection | * Automates the model selection for the user by recommending the best version of model based on the metric which is relevant to the solution |
| Git support for custom functions | * Enables version control and collaborative development |
| Realtime Feedback management | * Continuous integration of feedback into the models thereby improvising the model accuracies in real-time |

Performance Report

The performance of the platform with the upgrade is tested in the below base infrastructure.

Testing Environment Infrastructure:

EC2 Instance Type: M5.xLarge – 2 Hosts  and performance on the base

Performance Test Results:

**Single Document Results:** *(Processed 1 document with various page sizes up to 100 pages)*

Average processing time per page : **45.75 second**

**Batch Processing Results*:*** 

Average processing time per page: **32.56 seconds**

As we prepare to migrate all our users to 9.0.x we give you a glimpse of our features for the next release in Q4 of 2020.

Next Release:

A quick snippet of what you can expect in upcoming releases:

* Operational Intelligence
* A/B testing of Solutions
* Assisted Extraction 2.0 (Assisted Linking)

Also, Please find the following attached with this email

1. List of known issues
2. How to upgrade your stack to 9.0?
3. Frequently asked Questions