

Process Mining Virtual Internship

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Introduction

Process Mining Virtual Internship is offered by Eduskills Foundations with the support of Celonis Academy. It is a non-profitable organization which provides the resources to improve technical knowledge. The Academic Alliance offers students the chance to learn about Process Mining and upskill for their future career. They offer students free access to the Celonis technology for their the purpose of learning and classwork as well as online certifications, their support etc.

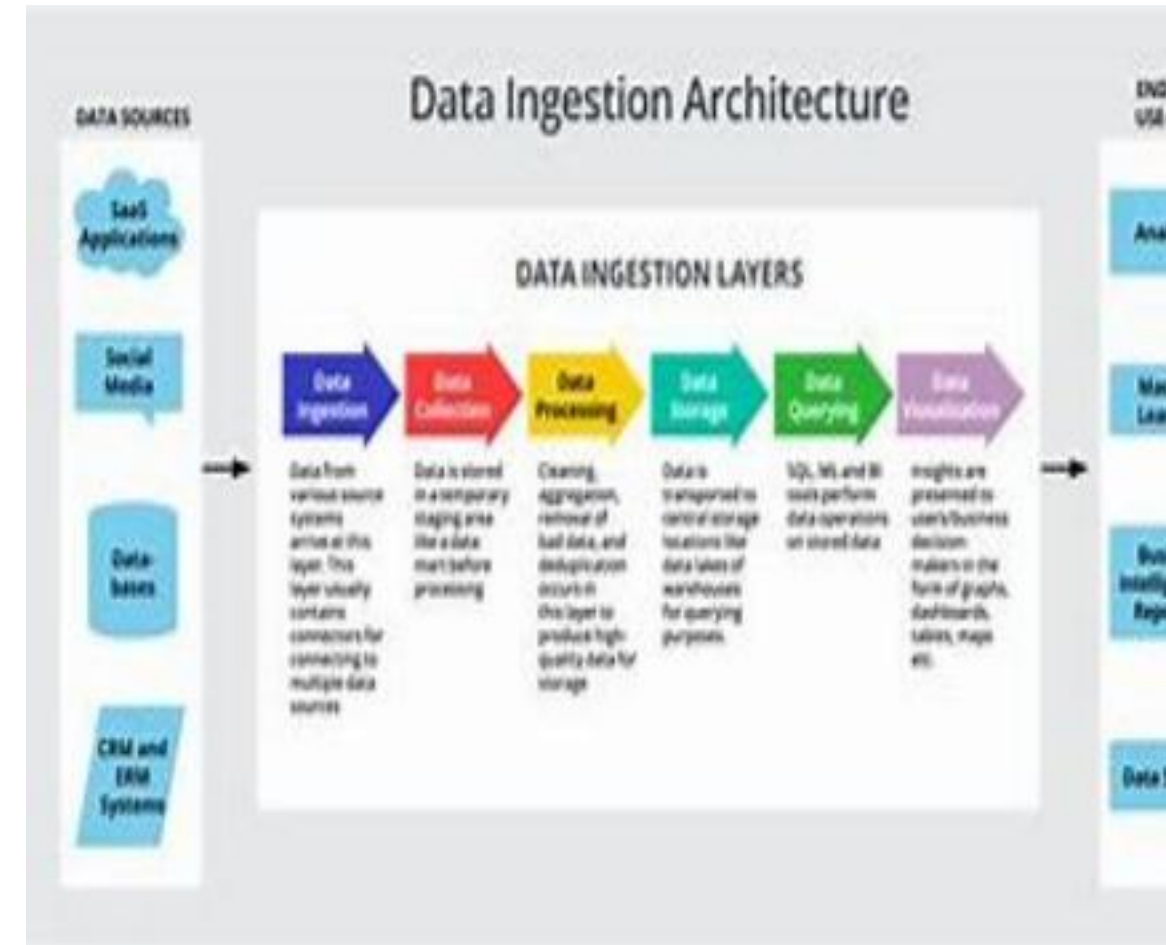
Modules

1. Data Ingestion
2. Process Recovery
3. Process Conformance
4. Root Cause Analysis
5. Action Engine
6. Variant Explorer
7. Simulation & Scenario Analysis
8. Execution Management

Data Ingestion

Data ingestion Layres:

- Data Ingestion
- Data Collection
- Data Processing
- Data Storage
- Data Querying
- Data Visualization



Process Recovery



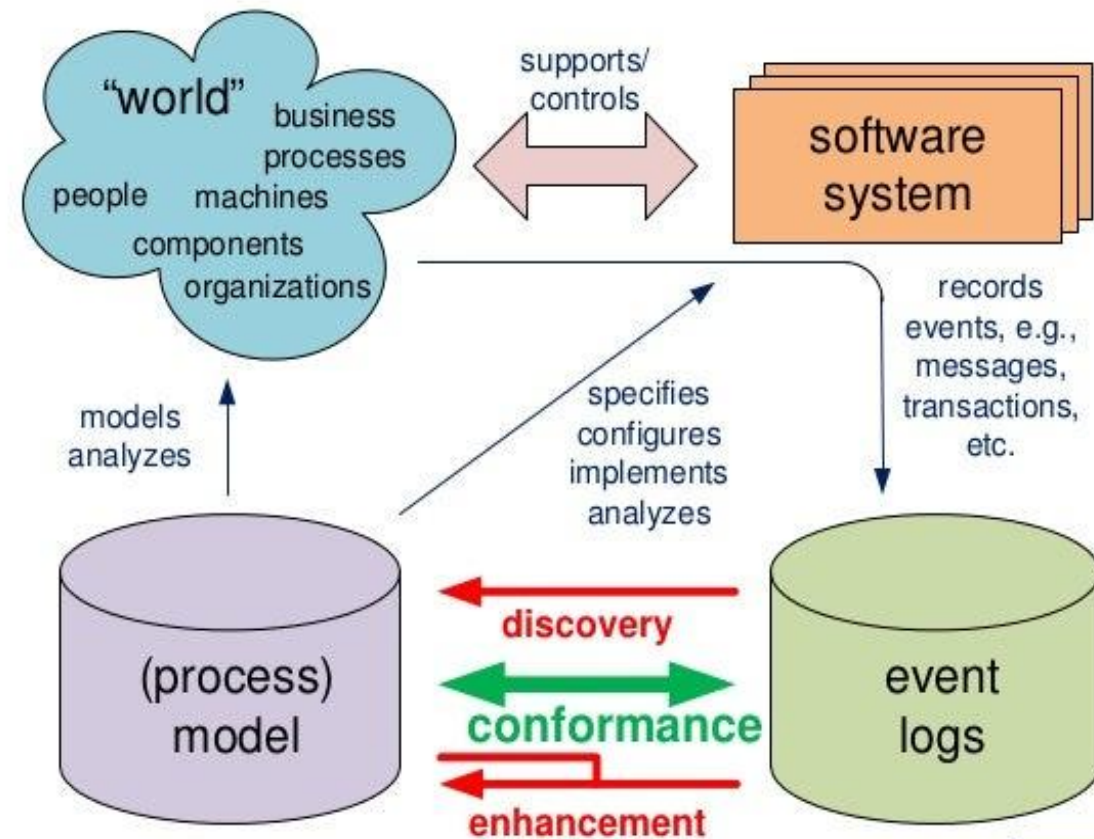
Process Recovery refers to the actions taken to restore a failed or interrupted process in a system to a stable state. It involves detecting failures, rolling back to a consistent checkpoint, or restarting the process from a saved state, ensuring minimal data loss and system disruption.

Process Conformance

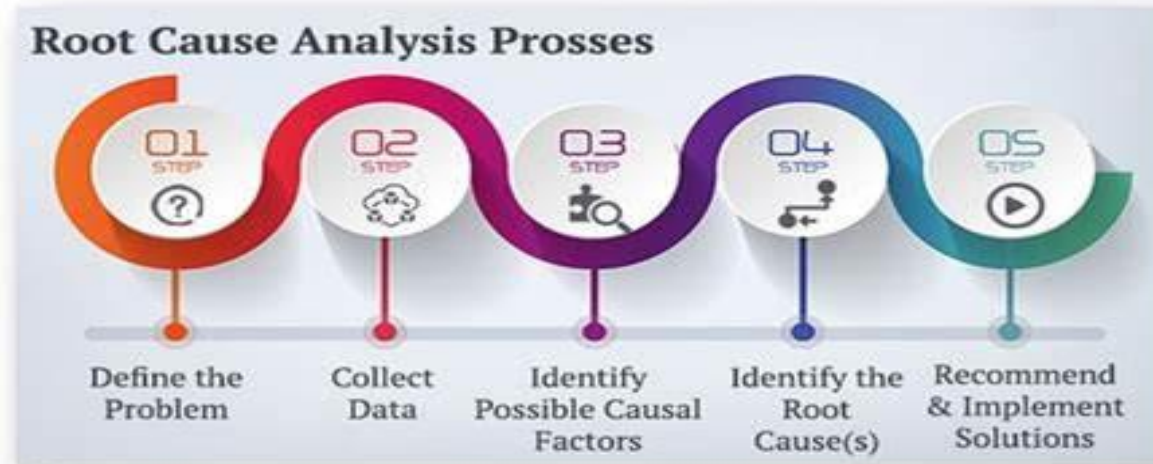
➤ Process conformance refers to the adherence of business processes to predefined standards, guidelines, or regulations.

Ensuring conformance improves efficiency, quality, and compliance, helping organizations meet goals consistently and effectively.

Conformance checking

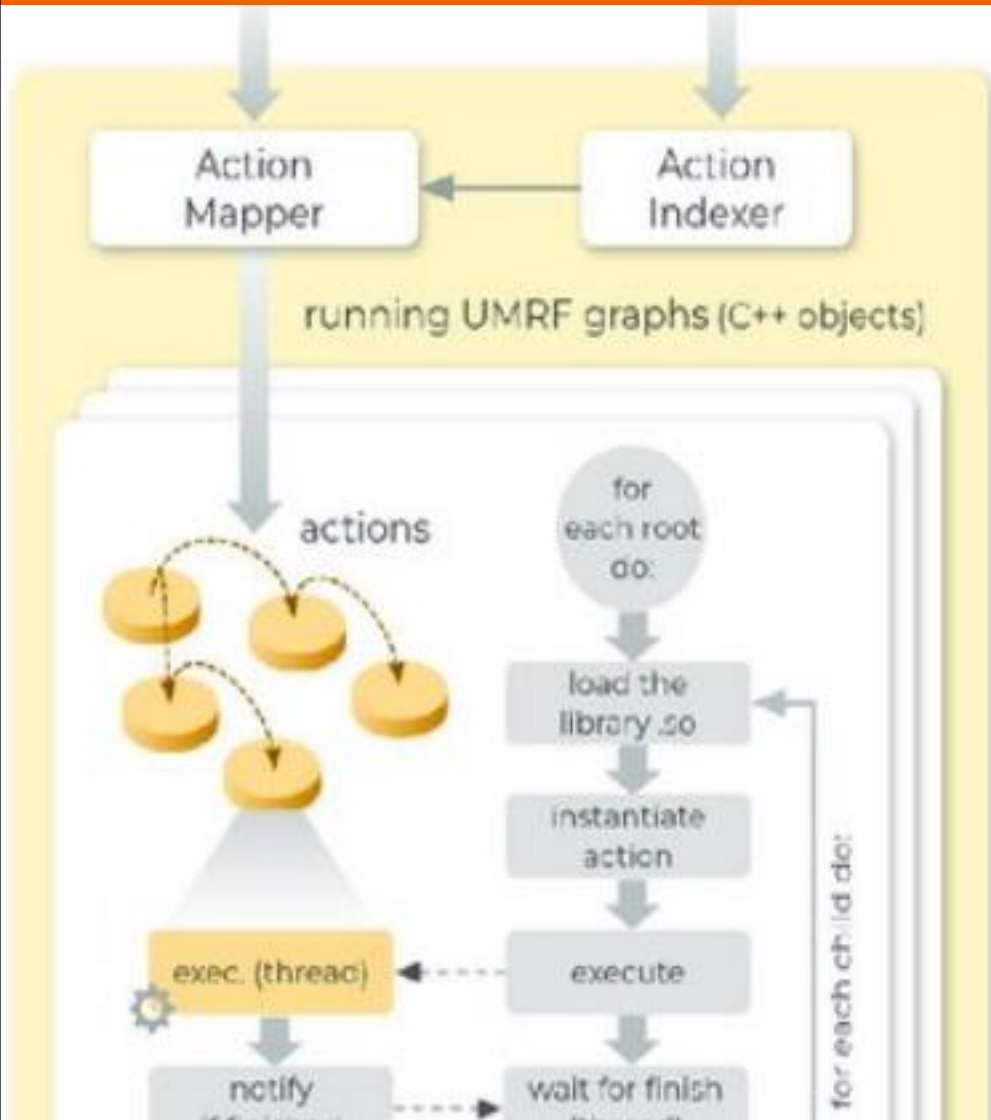


Root Cause Analysis



Root Cause Analysis in Celonis identifies the underlying factors behind process inefficiencies or deviations by analyzing data patterns, variations, and performance metrics, enabling targeted improvements for optimal process efficiency. By analyzing event logs and process variations, it uncovers patterns and correlations that point to underlying issues. This allows organizations to target and address the root causes of problems, leading to more effective process optimizations and enhanced performance.

Action Engine



- ❖ Celonis Action Engine is an AI-driven tool that monitors processes in real-time, identifying ineffectiveness or deviations and triggering proactive alerts or automated actions. It enables users to set custom rules, receive actionable insights, and automate workflows, ensuring continuous optimization and better decision-making across business processes.

Variant Explorer

Variant Explorer in Celonis provides a detailed visualization of the different pathways or variations a business process can take. It helps users compare process variants, highlighting the most common, costly, or inefficient ones. This insight enables organizations to identify improvement opportunities and streamline their processes for better efficiency.



Variant Explorer
Celonis Analysis

Simulation & Scenario Analysis



- Simulation and Scenario analysis involve modelling real-world systems or events to explore potential outcomes. Simulation uses algorithms to mimic processes, while scenario analysis examines various hypothetical situations to assess risks or opportunities. Both techniques are in decision-making ,helping businesses,policymakers, and planners anticipate challenges, optimize strategies, and improve outcomes under uncertainty.

Execution Management



- Execution management in Celonis involves leveraging process mining to visualize, analyze, and optimize business processes. It enables organizations to identify inefficiencies, monitor KPI's, and implement data-driven decisions for improved operational performance. By automating insights and forecasting continuous improvement, Celonis enhances execution across various business functions.

Real Time Applications

- Financial Services
- TeleCommunications
- HealthCare Workflow improvement
- Fraud Detection
- Human Resource Management
- IT Service Management
- Energy Management
- Compliance Management
- Customer Journey Analysis

Conclusion

➤ Celonis Process Mining revolutionizes how organizations analyze and optimize their business processes. By leveraging advanced data analytics, it enables companies to gain comprehensive visibility into their operational workflows, uncovering inefficiencies and bottlenecks in real-time. This data-driven approach empowers organizations to make informed decisions, streamline processes, and enhance compliance. With its intuitive visualization tools, Celonis allows users to identify improvement opportunities and implement changes effectively, leading to increased efficiency, reduced operational costs, and better overall performance. Ultimately, Celonis Process Mining equips businesses with the insights necessary to foster continuous improvement and drive sustainable growth in a competitive landscape.

References

- ❖ <https://academy.celonis.com/learn/dashboard>
- ❖ [https://academy.celonies.com/pages/academic rising star technical](https://academy.celonies.com/pages/academic%20rising%20star%20technical)
- ❖ [https:// academy.celonies.com/learn/learning path/process mining fundamentals for students](https://academy.celonies.com/learn/learning%20path/process%20mining%20fundamentals%20for%20students)
- ❖ [https://academy.celonies.com/learn/learning.path/get for students data into the ems/](https://academy.celonies.com/learn/learning.path/get%20for%20students%20data%20into%20the%20ems/)

Internship Certificate



Git Hub Dashboard

The screenshot shows a web browser displaying the GitHub repository page for 'chagalsamreen01 / Summer-Internship-1'. The repository is public and contains three files: 'Internship Presentation Template.pptx', 'google android certificate.pdf', and 'summer internship-1.pdf', all added 6 minutes ago. The repository has 1 commit and 0 tags. The 'About' section states: 'This is a summer internship on Google Android Developer.' The 'Releases' and 'Packages' sections indicate no releases or packages have been published. The 'Add a README' button is visible at the bottom of the repository content area. The browser's taskbar at the bottom shows various application icons and the system clock indicating 12:45 on 05-10-2024.

Sign in | chagalsamreen01 / Summer-Internship-1: This is a summer internship on Google Android Developer.

https://github.com/chagalsamreen01/Summer-Internship-1

McAfee Security | Dell | Gmail | YouTube | Maps

chagalsamreen01 / Summer-Internship-1

Type to search

Code | Issues | Pull requests | Actions | Projects | Wiki | Security | Insights | Settings

Summer-Internship-1 Public

Pin | Unwatch 1 | Fork 0 | Star 0

main 1 Branch 0 Tags

Go to file

Add file

Code

About

This is a summer internship on Google Android Developer.

Activity

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

chagalsamreen01 Add files via upload 310f25b · 6 minutes ago 1 Commit

Internship Presentation Template.pptx Add files via upload 6 minutes ago

google android certificate.pdf Add files via upload 6 minutes ago

summer internship-1.pdf Add files via upload 6 minutes ago

README

Add a README

Help people interested in this repository understand your project by adding a README.

Add a README

Search

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ENG IN

12:45 05-10-2024

Thank You!!!