

PMT – Publication monitoring tool for the world's largest provider of ESG, fixed income, and equity indexes

Client

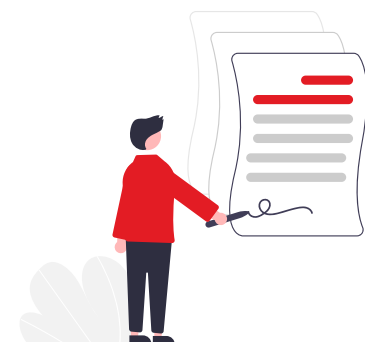
An American finance company headquartered in New York and being the world's largest provider of Environmental, Social and Governance (ESG) indexes, with over 1,500 equity and fixed income ESG indexes designed to help institutional investors benchmark ESG investment performance more effectively as well as manage, measure, and report on ESG mandates.

Business Situation

The client required to conduct research on companies based on publications through their company websites and stock exchange websites.

It needed an automated technology solution to:

- Capture these publication documents from
 - ✓ 12000 corporate websites
 - ✓ 19 global (US, Canada, APAC) stock exchange websites
- Categorize and fetch relevant data from publication documents as –
 - ✓ Corporate Governance (fetched from Annual report/AGM notice)
 - ✓ Environment and Social for Ratings (fetched from CSR/Annual report/AGM notice)
- Feed this data in the MSCI system called "Capture" for MSCI's further market research.



Solution

SGA created a technology solution called PMT (Publication Monitoring Tool).

- PMT extracted relevant publication documents from corporate websites (exchange monitoring) and stock exchanges websites (web monitoring).
- The extracted publication documents were validated for correctness and post tracked to avoid providing duplicate documents to analysts.
- These publication documents were then processed manually by SGA work flow analysts for relevant data extraction and feeding in the MSCI system – Capture.
- The next business case was the creation of a data extraction engine to extract relevant data from publication documents and feed in Capture.

Benefits and Outcomes of Our Engagement

- Involve costs of solution development and maintenance, but will be cost-effective in the long run.
- Reduce manual work and FTE usage, further increasing the ROI.
- Eliminate the dependence on manual labor, can run anytime for any number of times, and increased volumes can be handled easily, hence solution scalability is possible.
- Ease of execution.
- More cognitive work can be allocated to analysts.
- Reduction in manual processing and increment in automation, improving the quality of work.

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contact us on **+1 315 503 4760**

SGA Approach

- The solution was built in Python 3.7 (+ various libraries, e.g. Scrapy1.8.0) and UiPath 2020.6.0 technologies; it runs on AWS cloud.
- Other tech stacks were Ubuntu Linux 18.4 and MSSQL8.0.
- This was a real-time solution that fetched and sent documents from exchanges 4 times/day and corporate websites 2 times/day.
- It was a pre-scheduled system that was executed on pre-defined timings.
- The document sources (corporate websites and stock exchanges) were dynamic, and hence the extracted data, which added to the complexity.
- It followed the client's SLAs:
 - ✓ Document capture – Within 2 days of publishing on the company website and/or stock exchanges
 - ✓ Analyze and feed data in Capture - within 10 days of document capture
- PMT dealt with the following average volume:
 - ✓ Process document source location: 6000/day
 - ✓ Output document links: 18773/month

Cost Benefits

- Estimated manual effort reduced from 4FTE analysts to 1.75FTE analysts with the automated PMT solution - 56% of effort has already been saved.
- During the course, manual effort could be reduced further as the maturity of the end-to-end system (Analyst + Automation Solution) increases.

Tools Used



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