Utilities – Real-Time Auditing & Expense Categorisation

1. The Context

A leading global provider of comprehensive photovoltaic solar energy solutions, is an example of an organization that is benefiting from automated real-time auditing of expense reports

- The assessment of expense reports can be an expensive and time-consuming task, especially for very large organisations

- Often only the expense reports that are of concern need to be brought to the attention of human resources, with the bulk majority being easily approved

2. Our Challenge

RUBIX. was engaged to develop a Deep Learning Neural Network model that 'read', analysed, and decided on whether to approve, reject, or escalate an expense report

- RUBIX. developed an AI engine that learned the client's business rules around expense approvals. Through hosting a number of workshops and gathering the relevant documents and data, we trained our model through an iterative process to identify reports that can be immediately approved, reports that need to be amended, and reports that need to be escalated

- We brought our experience in Data Science and productionising of Deep learning and Neural Network Models to successfully train and deploy an AI engine into the client's production environment

- Our ability to work collaboratively with the accounts team nationally and internationally to implement a technical solution with a team of "non-techs" was a key point that set us up for success

- The AI engine enables the client to review expense reports for problems such as FCPA violations, merchant prices outside of normal limits, and hotel spending limits for a city.

3. How we Triumphed

On time and on budget, the Client received a machine learning model that was able to significantly reduce processing and approval times, with high levels of accuracy, allowing the client to save time and money on the process, with only complex or flagged reports escalated to a human agent

- The technology provided the business with immediate benefits. Within one month of deploying the technology, the client achieved a 50 percent reduction in resources required to audit expense reports.

- The client's audit staff no longer needs to review expense reports flagged with "low-risk" problems.

- Automated real-time auditing of expand reports also accelerated the identification and resolution of T&E expense reports with problems, resulting in significantly faster employee reimbursement.

RUBIX.