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AI^2 Artificially Intelligent Invoices

In the workplace, manual invoice processing continues to be one of the most inefficient and time consuming tasks for Accounts Payable teams. It's still normal, in many industries, for staff to be expected to sift through emails, read PDF attachments, extract key details and compare them to purchase orders by hand. This process causes slow payment cycles and creates unnecessary stress for employees, and can even lead to errors that would otherwise be avoided with the mindful application of new technology.

ADS is a great example of a company that could enjoy the benefits of automation tools in their Accounts Payable team. Currently their AP department deals with hundreds of thousands of invoices annually, from thousands of different vendors, and a small team of workers is expected to keep everything moving smoothly. With their business increasing in size, much of the AP team's time is spent on tasks that could easily be replaced by automation, ex. Matching PO numbers and data entry. With such a high workload and limited manhours split between the small team, it's difficult to stay ahead. In a fast paced business setting, inefficient workflows and errors can cause delays that impact both ADS and their relations with suppliers.

In order to address these difficulties, our group is building AI^2, an invoice automation system designed specifically for ADS's business needs. AI^2 will be able to read over incoming

invoices, extract vital information, match them to purchase orders and detect potential errors. Invoices that are marked as high confidence will be processed the fastest, while lower confidence cases are routed for additional review by the AP staff. This allows the staff to focus on the invoices that require the most attention, and save their time on the invoices that are ready to be processed as-is.

Overall, AI^2's goal is to reduce manual work, improve processing speed, and increase accuracy across the AP team's workflow. By implementing our solution, ADS will be able to provide more meaningful support to its staff, and also build and maintain vendor relationships. By creating a more reliable and efficient process, our hope is to modernize their invoice operations and lay down the foundation for more optimization improvements in the future.