

CDAO 2025

Maximising Impact: Cost-effective strategies for data and analytics in the age of AI

Presented by Mike Zhou



Changing the world of consumer debt recovery for good.

We are a technology company in the Debt Collections Space.



Over 2000+

Five Star Google Reviews left by real consumers we've supported.

Significantly
Higher
Engagement

Customer Engagement leveraging ML & AI

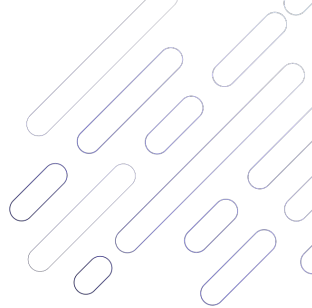
Operating in



400+

Team Members Globally

About Me



At InDebted, I focus on:

- Data Strategy
- Analytics & Data Science
- AI Product Development

And:

- 16+ Years Experience in Data-Related Disciplines
- Now, with a focus on Applied AI



**Gen AI Technology is
now **mature** enough for
many Enterprise Use
Cases.**

Please raise your hand if you agree.

Prime Time for AI Initiatives

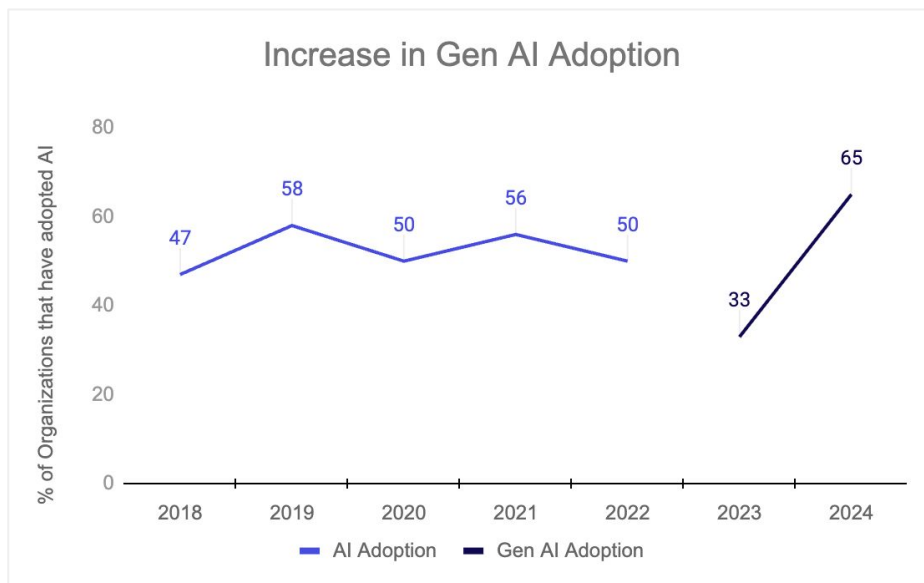
Benchmarking scores shows maturity of current-gen AI Models



Compared to 18 months ago, the top 5 LLMs are very similar in performance now.

Prime Time for AI Initiatives

Growth of Gen AI Adoption evidencing increasing effectiveness



Gen AI
Adoption in
Enterprise has
increased
dramatically

Criteria for Investing in AI Initiatives



Evaluation of AI Performance for Task

To ensure that the AI results are fit for purpose. This is usually done through a POC or experimentation.



Integration and Infrastructure Requirements

A scoping of the integration and supporting infrastructure requirements. Custom middleware or connectors can be problematic.



Estimate ROI of Initiative

Above all else, it's important to remember that the ROI however low or high should be forecasted and measured.

Three Examples

AI Coding Editors

AI SQL Analyst

**AI Customer
Agent**

Problem

We want to ship features faster

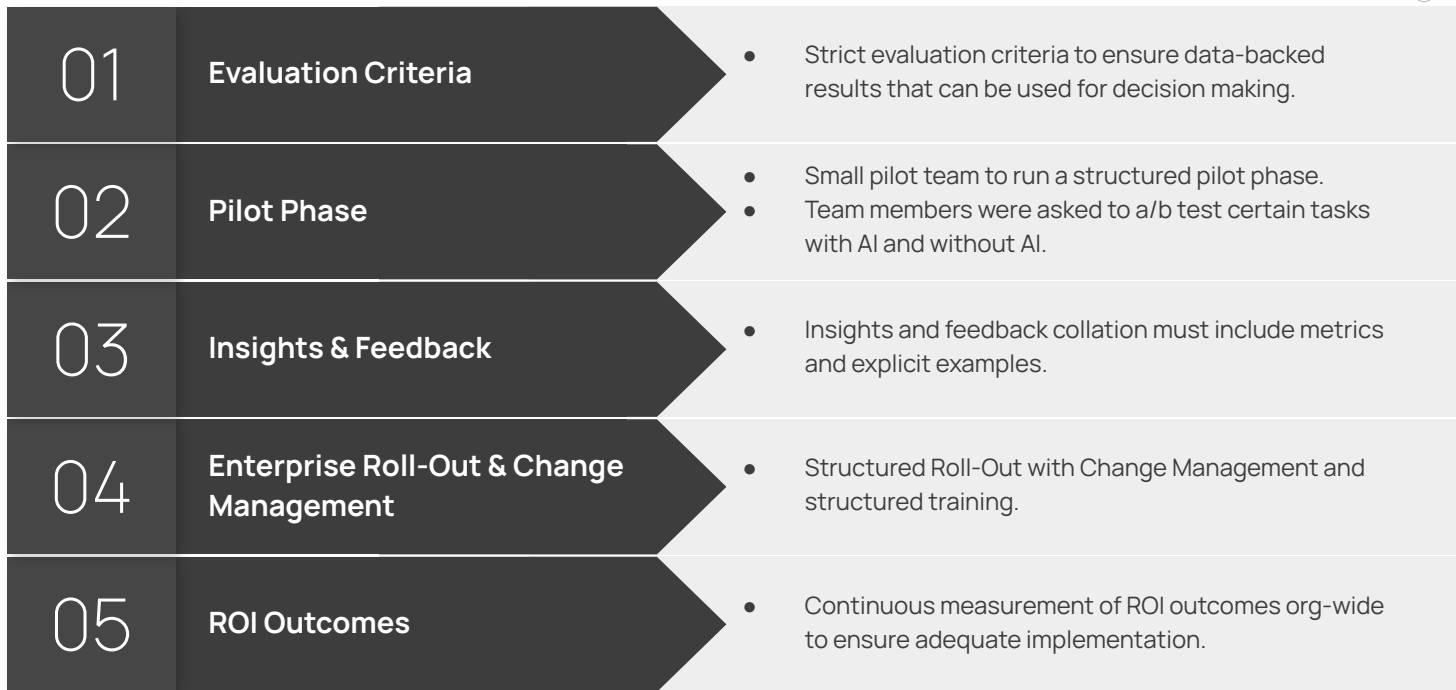
Improve velocity of output for:

Software Engineers

Data Scientists

Data Analysts

Coding Editor Implementation Framework



Our Roll-Out of AI Coding Editors

First Pilot Unsuccessful

Tool was usable, but was unsuccessful in meeting our hurdle for broader roll-out.

Second Pilot Successful

Attempted a second pilot program.

Feedback resulted in measured **X%** productivity increase depending on task.

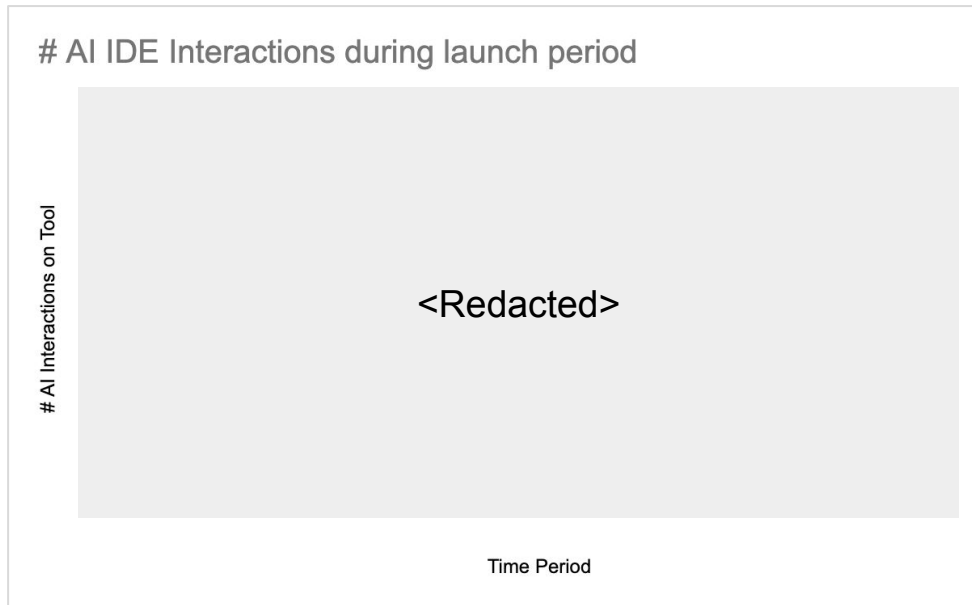
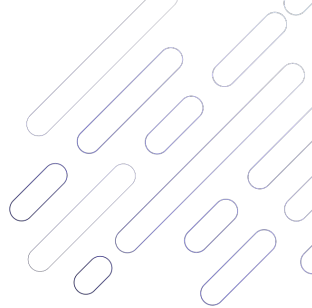
**X% Increase in
Productivity**

Wider Deployment

Org-wide Announcement and Structured training.

Mandatory Usage amongst all members of technical staff who code.

Increased Usage after March Roll-Out



Ongoing Plan

Monitoring of utilisation

Linking that to productivity and project output measurements

Second Example

AI Coding Editors

AI SQL Analyst

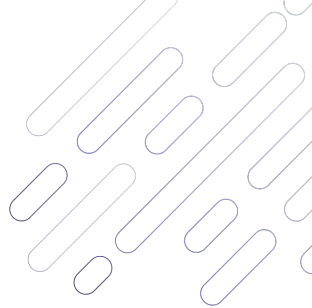
**AI Customer
Agent**



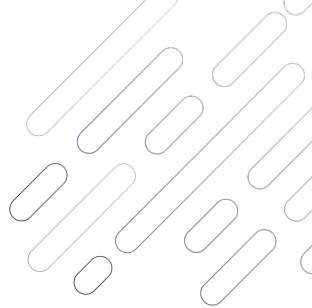
Problem

Data Analysts spending time on low-value work

Our view is that data analysts should be focused on adding
value



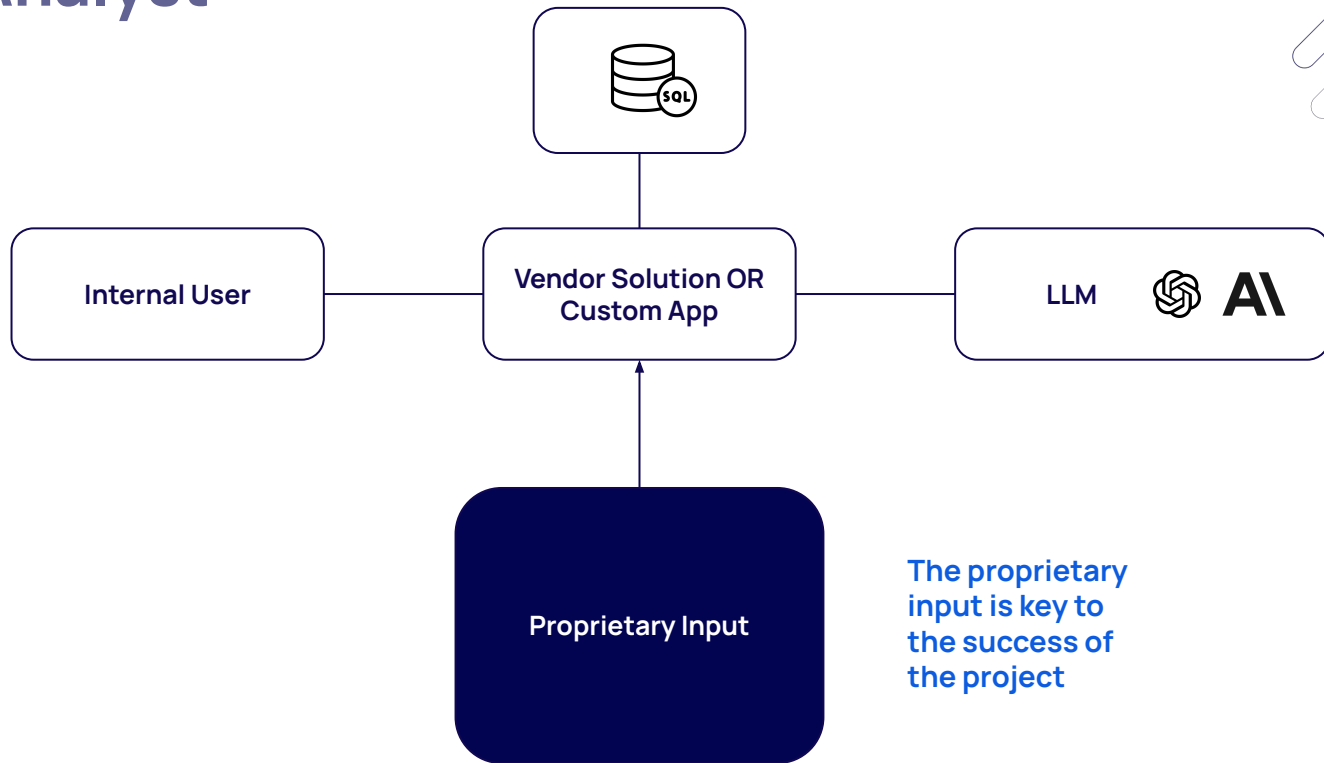
Proposed Solution



AI SQL Agent to Answer **Ring-Fenced** Queries

AI SQL Analyst Application ring-fenced for specific business use cases. We began to experiment with this prior to the release of a lot of tools that we see on the market today.

AI SQL Analyst



Key Proprietary Input



Purpose-Built Analytics Datamart

In order to minimise the risk of errors, the underlying data tables need to be structured for the use cases you intend to use this for.

Enterprise Data Dictionary & Knowledge Base

AI Models are able to reason and think through. But they still need to be taught specifics about your organisation.

Training Data - Historical Queries (Optional)

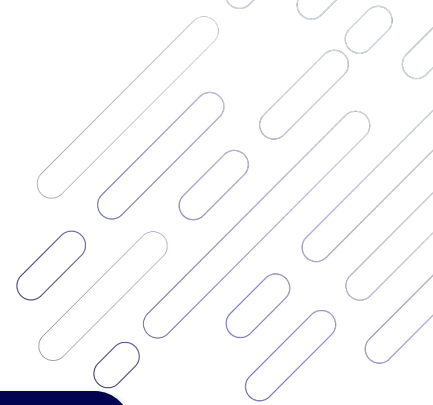
We began including well structured examples of queries that have been written by our own Analysts - both query & natural language explanation were included

Third Example

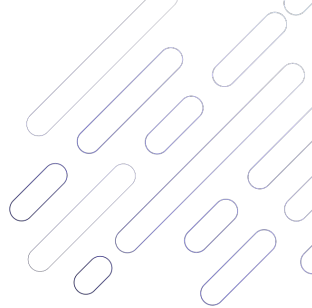
AI Coding Editors

AI SQL Analyst

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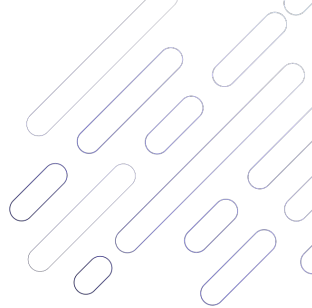
Problem



**Higher than desired Customer Service
expenditure**

We wanted to increase our rate of automated deflection.

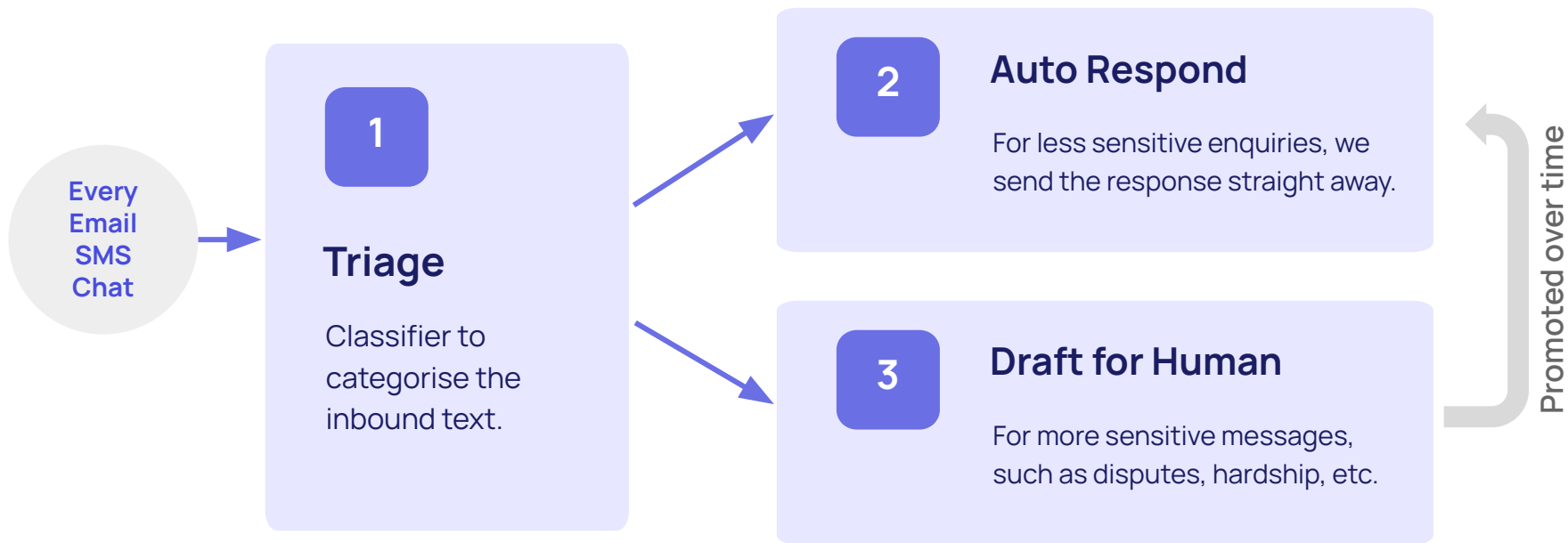
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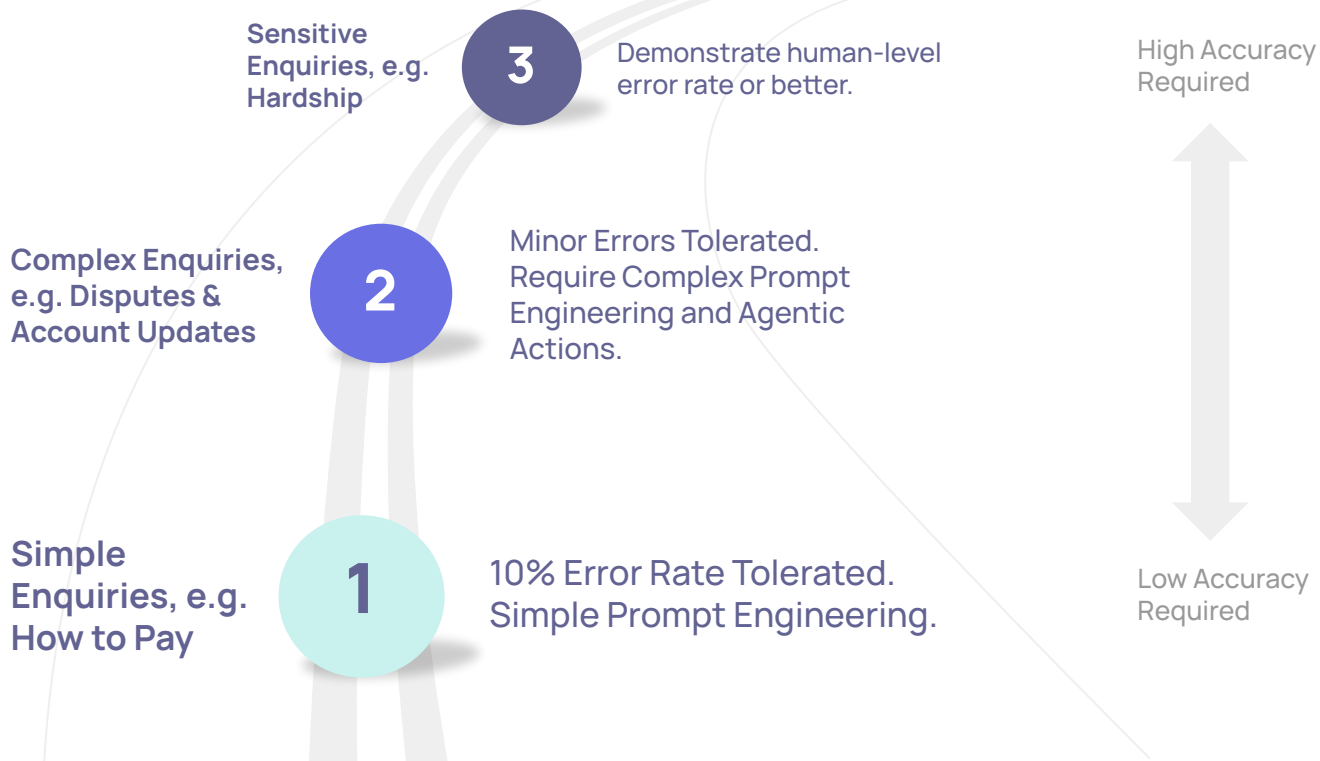
Text-Based AI Agent to Respond to Customers

To help the company grow without needing to add human customer service staff, we embarked on a journey to develop a custom response tool for debt collections.

Overcoming Compliance Requirements



Journey to Full AI Coverage in a Regulated Industry



Key Message



Irrespective of where you are on your journey implementing AI:

Remain informed on where 'AI Tech Accuracy' is for your use cases

Ensure you have technical team members who keep up to date on the latest use cases that AI has become effective for.

Thank You

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or find me on LinkedIn

