

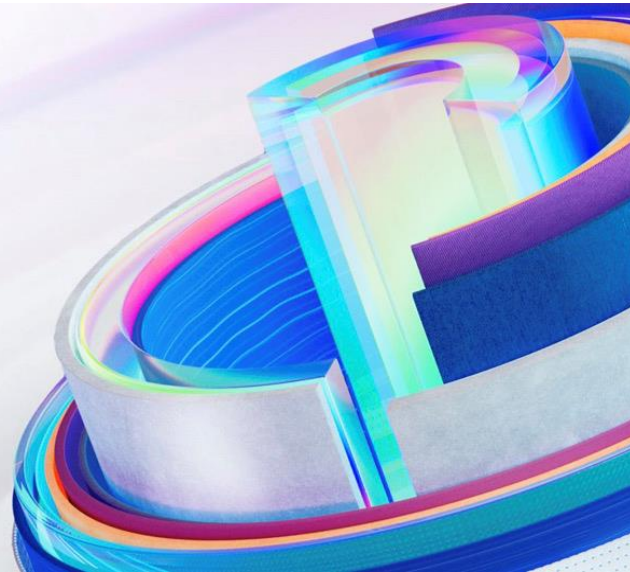


# Enterprise Knowledge Mining Powered by Open AI

Leveraging Advanced Language Models to Solve  
Complex Business Challenges

## Winner

Microsoft AI Partner  
of the Year 2023



Vision



Speech

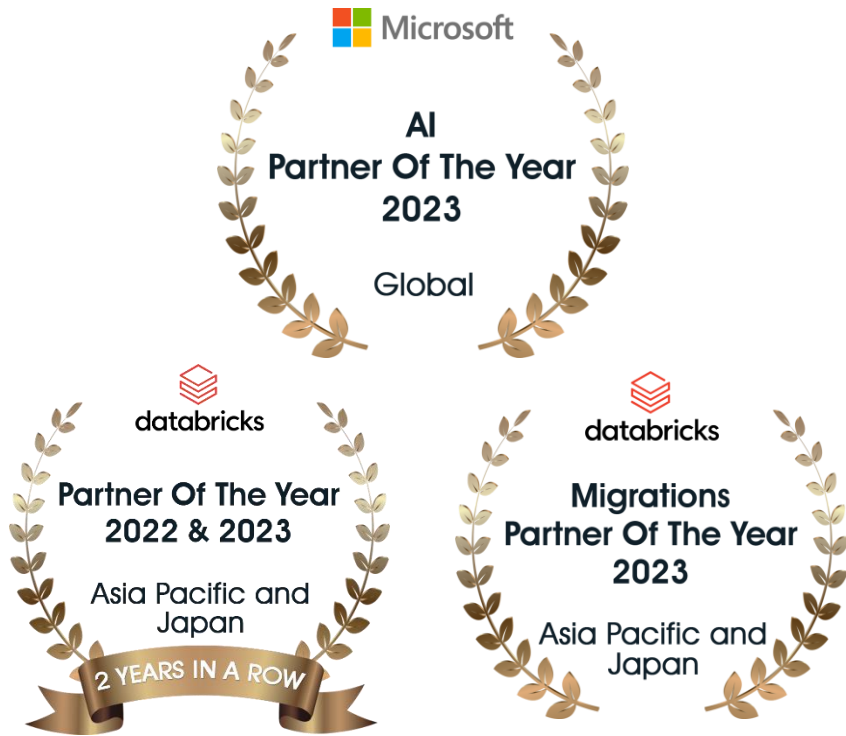


Language



Decision

# Celebal Specialization and Strength



## Partnerships



## Advanced Specialization



- AI & Machine Learning
- Analytics
- Infra and Database Migration to Microsoft Azure
- Kubernetes
- Cloud Security
- Low Code no Code

INDIA | USA | CANADA | APJ | MIDDLE EAST | AUS

**2800+**  
Employees

**800+**  
AI experienced professionals

**500+**  
AI Certifications



## Industries We Serve



# Knowledge Mining

Knowledge mining delivers an enhanced experience that enables organizations to gain insights faster from content that would otherwise remain untapped.

## Features

- Helps quickly review these dense materials
- Quick and near real-time
- Helps avoiding costly mistakes
- Attorneys can quickly identify entities of importance from discovery documents
- Flags important ideas across documents
- Helps to quickly review and research of technical data
- Help organizations to scour thousands of pages of sources to create an accurate bid



# Industry Use Cases



## Manufacturing

- ✓ BOM Explosion
- ✓ Knowledge discovery bot
- ✓ Warranty and product performance.
- ✓ Field service troubleshooting & support
- ✓ Prescriptive maintenance actions
- ✓ Technical - summarization (SOPs, work instructions, etc.)
- ✓ Automated analysis for daily production/ shift reviews



## Retail and CPG

- ✓ Inventory Replenishment by shoppers search
- ✓ Product feedback and insights generation
- ✓ Real time hyper-personalization
- ✓ Virtual shopping assistants
- ✓ Product search & recommendations
- ✓ Customer service routing & chatbot
- ✓ Competitor / Market summarization
- ✓ Document discovery



## FSI

- ✓ AML and KYC Automation
- ✓ Email and Legal Reports Automation
- ✓ Financial Data Summarization
- ✓ Credit Risk Modeling
- ✓ Market Analysis and Investment Research
- ✓ Compliance and Regulatory Reporting
- ✓ Claim Assessment and Fraud Detection
- ✓ Customer Service Automation



## Oil and Gas

- ✓ Reservoir Simulation
- ✓ Well Drilling Optimization
- ✓ Seismic Data Analysis
- ✓ Energy Consumption Forecasting
- ✓ Environmental Impact Assessment
- ✓ Equipment Health Monitoring
- ✓ Production Forecasting
- ✓ Fraud Detection

# Functional Use cases



# Case Study

## Business Scenario

- Tedious task to extract information from pdf, images, excel and databases.
- Unstructured and unorganized nature of text makes it difficult to analyze.
- Analyzing thousands of pages of documents and extracting insights from it is not manually feasible.
- Most companies fail to extract value from their documents because of the time-consuming extraction process.

## Conclusion

- An automated knowledge mining system leveraging text analytics and deep learning.
- Information Retrieval and Relationship Extraction are used for designed this system.
- The model captures semantic and syntactic information from natural language.
- Relationship Extraction is used for classifying the possible answers.
- Average response time of 15 second for doc style PDF and 57 seconds for Image PDFs
- Content extracted with 94% accuracy





CELEBAL  
TECHNOLOGIES

Thank  
You