



Solution Landscape and Player Analysis: AI & ML in Mining Industry

Case Study

Solution Landscape & Player Analysis

Client	A leading bearing and seal manufacturing company
Industry	Industrial and Mining
Products	Mining machineries, monitoring systems

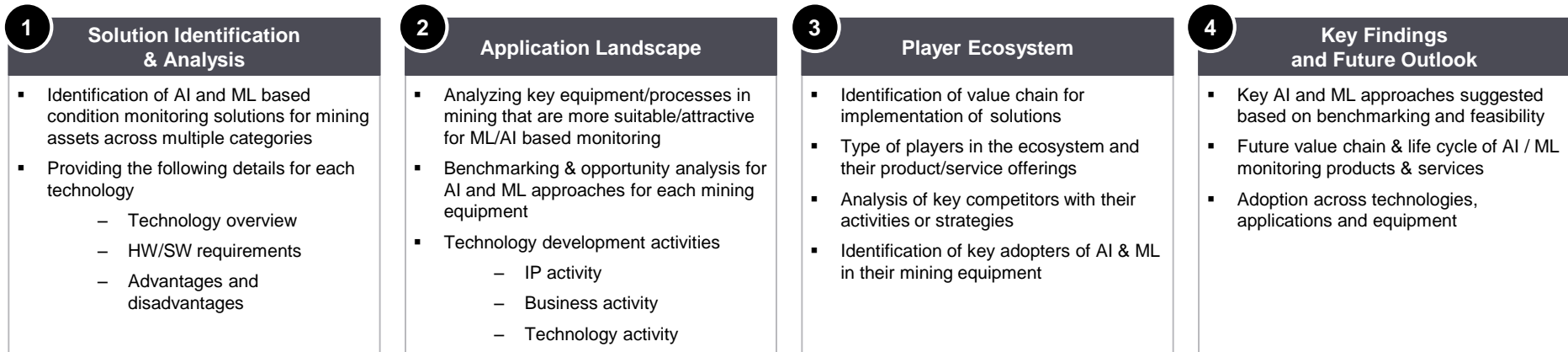
Context

- Client wanted to know different artificial intelligence (AI) and machine learning (ML) technologies for asset monitoring and predictive maintenance in mining operations
- Further, client seeks insights about the competitors and their business activity in adopting AI and ML for a machine's condition monitoring

Key Business Questions

- What are AI and ML technologies/solutions for monitoring of mining machineries?
- How will traditional monitoring change in the direction of adopting AI and ML?
- Which players are developing AI and ML technologies for machine monitoring? Which players will lead the market (OEM or Integrator or software provider etc.) and which data are being collected?

Engagement Scope



Solution Landscape & Player Analysis

Research Methodology

Secondary Research

- Conducted desk research to understand various AI/ML approaches evolving for mining
- Analyzed scientific papers for identifying parameters and new approaches

Patent Research

- Gathering patent literature from various portals for gathering innovative approaches

Primary Research

- 20+ Telephonic interviews with manufacturers, distributors, industry experts, retailers, and consumers, etc.

Benefits to Client

- Client has a better understanding of upcoming AI and ML approaches being used in the mining industries
- Client was able to select AI and ML approaches for their mining equipment based on benchmarking and feasibility assessment
- Client got insights of their competitor's strategies and activities for adopting AI and ML in mining equipment

Sample Analysis

1 Solution Identification & Analysis

The screenshot shows a report titled "Details Outlook - Primer - AI & ML in Mining Industry (1/7)". It includes an executive summary and key findings. The key findings section lists several points, such as the importance of AI/ML in mining, the role of predictive maintenance, and the impact of automation. The report also includes a table of contents and a list of key players in the industry.

2 Application Landscape

The screenshot shows a report titled "Details Outlook - Predictive Maintenance - Other Areas Solutions (1/7)". It provides a detailed analysis of predictive maintenance solutions, including a list of key players and their offerings. The report also includes a table of contents and a list of key findings.

3 Player Ecosystem

The screenshot shows a report titled "Details Outlook - AI, ML, Technology Stack (1/7)". It features a diagram of the AI/ML technology stack in mining, showing the flow of data from sensors and equipment to analytics and decision-making. The diagram includes components like sensors, data collection, data processing, data storage, data analysis, and decision-making. The report also includes a list of key players and their offerings.

4 Key Findings and Future Outlook

The screenshot shows a report titled "Details Outlook - Key cases in Mining (1/7)". It provides a detailed analysis of key cases in mining, including a list of key players and their offerings. The report also includes a table of contents and a list of key findings.

Thank you

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