Bardess Data Science Maturity Curve

1. Learning
- Aware of data science, but with no existing expertise.
- 1-3 data scientists or analysts beginning to explore data science use cases. No fully dedicated data science roles; data science just one of a number of responsibilities.
- Data scientists handle IT themselves.
- Integration with other business workflows carries much overhead.
- Inefficient, security risks, difficult to maintain, impossible to scale.
- Talent data scientists hard to find and expensive.
- Mountain of new jargon and technology to understand.
- Huge untapped value.
- Risk of being left behind by competitors.

2. Emerging
- Dedicated data science team/roles. Responsibilities and use cases have been defined.
- Data scientists still primarily working on laptops, doing most software and cluster admin themselves.
- Integration with other business workflows.
- Integration with other business workflows is ad hoc and fragile.
- Minimal IT infrastructure for data science team; overhead falls on data science team.
- Difficult to operationalize.

3. Functional
- IT infrastructure to support data science, integrations with databases, ERP, BI.
- Major efforts to integrate data science into wider business workflows.
- Many successful data science projects.
- Data scientist churn may still be a problem.
- (Risk of stagnation and loss of confidence in data science function).

4. Integrated
- Starting to explore enterprise software for data science.
- Using automated ML software. Tools available for “citizen data scientists”.
- Seamless integration between data science, BI, and data infrastructure.

5. Cultural
- Data science use cases have been comprehensively explored in every department. Predictive analytics part of everyday language. Results reported at board level.
- High value use cases regularly discovered and implemented.
- Company known as innovator in field.

Developed by Bardess Group.

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