Predictive Modelling Projects
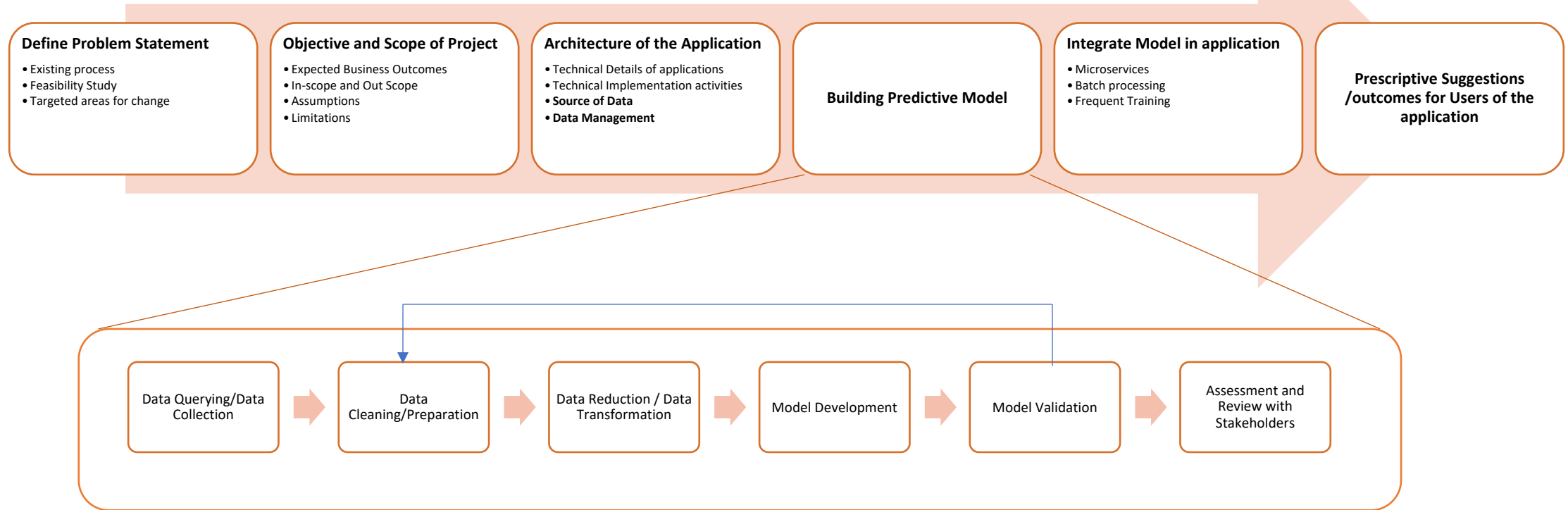
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Predictive Modelling Project Life Cycle

An example of Cloud Based Predictive Modelling Application

Define Problem Statement

- Existing process
- Feasibility Study
- Targeted areas for change

Objective and Scope of Project

- Expected Business Outcomes
- In-scope and Out Scope
- Assumptions
- Limitations

Architecture of the Application

- Technical Details of applications
- Technical Implementation activities
- **Source of Data**
- **Data Management**

Building Predictive Model

Integrate Model in application

- Microservices
- Batch processing
- Frequent Training

Prescriptive Suggestions /outcomes for Users of the application

| Data Querying/Data Collection | → | Data Cleaning/Preparation | → | Data Reduction / Data Transformation | → | Model Development | → | Model Validation | → | Assessment and Review with Stakeholders |

Assessment and Review with Stakeholders

- Identify the main stakeholder who is going to make decisions
- Prepare relevant visualizations of exploratory analysis and predictive models
- Identify the business outcomes
- Showcase benefits

Building a cloud based application

Data Acquisition
- API Gateways
- Databases
- IoT Devices
- POS systems

Analytical Engine
- Streaming Analytics
- Batch Processing
- Cron Jobs

User Interface
- Dashboards
- Web Application
- Mobile Apps

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