



Why invest in Al?

Profit = Revenue - Costs

Increase revenue

Analyze and leverage data at large scales

Act on data faster and automatically

Decrease costs



Use Case Life Cycle

Identification

Find relevant use cases consistent with AI strategy

Assessment

Compare the expected value with implementation complexity

Prioritization

Rank cases based on high value and low complexity

Execution

• Start with the most valuable cases first



Identify use cases

- Talk to the right people
 - Bring together domain experts, business stakeholders and AI experts
 - Ensure that initiatives address broad organizational priorities
 - Increase adoption chances by involving end users in the application design
- Brainstorm sessions to keep communication lines open
 - Defer judgement and encourage wild ideas
 - Build on ideas but stay on target
 - Go for quantity, more is better at this stage
- Not Al-ready?
 - Bring in external expertise



Questions to ask - strategy

- What goals are driving the company right now?
 - Better customer service to increase retention
 - Increase percentage of sales made with new products
- Which challenges keep you up at night?
 - How to make our ads more successful?
 - How to keep customers from leaving?
- What is driving current bottlenecks or preventing progress?
 - High production costs
 - High storage costs
 - High employee rotation



Questions to ask - processes

- Where would you benefit from knowing the future?
 - Future demand or supplier prices
 - When to maintain the machinery
- Where are things done over and over again?
 - Repetitive processes in data entry: invoices, sales, payroll, etc.
- Which tasks involve complex planning?
 - Manufacturing: supply orders and maintenance
 - Scheduling & logistics: deliveries and workers shifts



Questions to ask - customer

- What's hard and annoying for customers?
 - Returns and refunds → streamline/automate the process
 - Poor customer service → chatbots to answer faster
- What would you like to know?
 - Why do customers leave?
 - What will they buy in the future?
- Are there friction points in the customer journey?
 - Brand awareness & leads: automatic creation of social media posts or newsletter
 - Sales & loyalty: targeted promotions and advertising



Questions to ask - data

- What things are input manually?
 - Emails, receipts, reimbursements, etc.
- Where do you have a lot of relevant data?
 - Marketing: reach of campaign & ROI from different channels
 - Retail: personal customer data & order details
- Where do you already use some data to drive decision-making?
 - Dashboards for ad campaigns
 - Some parts of a production are semi-automated (e.g., quality control)



Assess use cases

Value

- What is the desired output of a given Al application?
- What business value does use case bring?
- What strategic advantages does it bring?
- Over what time period will be the value derived?
- Is this a game changer or business extender?

Complexity

- What data is needed to train a given Al solution?
- Is data available in our organization?
- Is the infrastructure ready or do we need to build one?
- What AI capability is required and do we have this?
- What are the greatest obstacles to solve this problem?



Score use cases

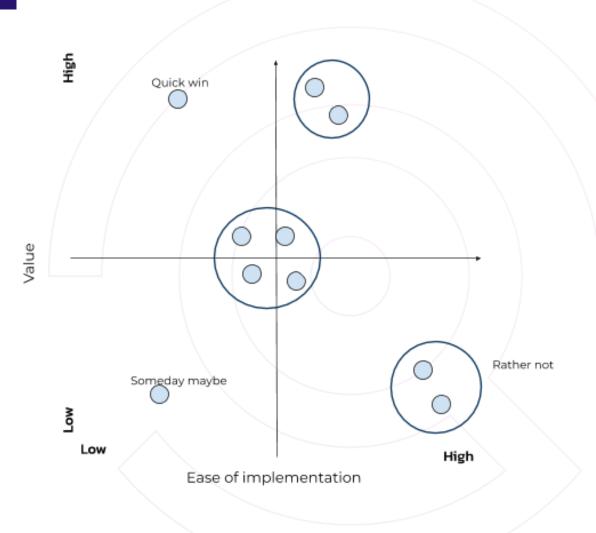
- Value
 - Score from 1 (no value) to 5 (lot of value)
- Complexity: average the following three components
 - Data: score from 1 (we have all data) to 5 (need to collect a lot of data, possibly hard to get)
 - Al skills: score from 1 (easy to implement) to 5 (requires research and experimentation from the team or even external experts)
 - Infrastructure: score from 1 (infrastructure is ready) to 5 (infrastructure needs to be built with lots of processing power and storage space)



Prioritize use cases

- Rank individual cases according to value and complexity scores
 - Plot value vs complexity
- Cluster use cases that are close
 - Prioritize clusters by value added and number of use cases

- Are there any quick wins?
 - Start with these





Churn modeling

- Why important?
 - Losing clients affects company revenue numbers and profits

- How does it benefit business?
 - Customer retention increases revenue and decreases costs
 - Understanding churn behavior leads to more effective retention strategies

- What data is needed?
 - Customer behavior, transactions, demographics, product usage/patterns, etc.



Recommender system

- Why important?
 - Increasing sales via personalized offers and an enhanced customer experience
- How does it benefit business?
 - Accurately guiding prospective buyers to your products increases revenue
 - Set-up of cross-selling possibilities
- What data is needed?
 - Customer data, user ratings and system interaction data (e.g., clicks, searches, visits, purchases, favorites)



Demand forecasting

- Why important?
 - Used for strategic business plans (e.g., budgeting, financial planning, sales and marketing plans, capacity planning, risk assessment and mitigation plans)
- How does it benefit business?
 - Improved inventory availability can increase revenue
 - Reducing storage waste can decrease costs
- What data is needed?
 - Sales data, product demand, market conditions, ecommerce, etc.



Fraud detection

- Why important?
 - Fraud increases costs and thereby leads to profit loss

- How does it benefit business?
 - Fraud prevention decreases costs
 - Identifying fraudsters leads to prevention of unnecessary payments
- What data is needed?
 - Customer behavior and transaction data



Targeted advertising

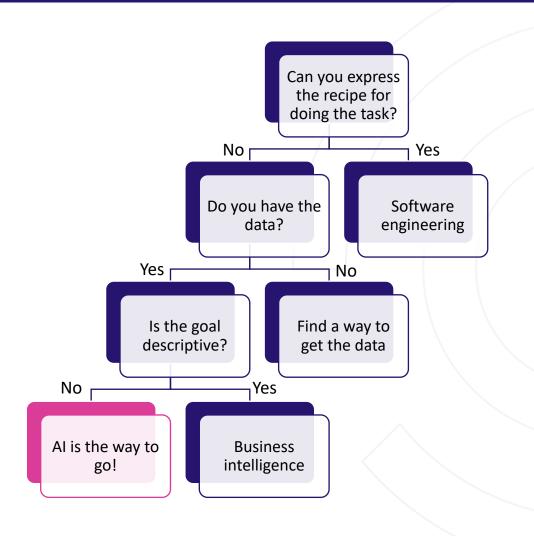
- Why important?
 - Cost-effective approach as it minimizes wasted advertising

- How does it benefit business?
 - Sales go up and customer satisfaction increases (less annoyed by random ads)
 - Targeting successfully leads to increased revenue and decreased costs

- What data is needed?
 - Purchase history & client personality, attitude, opinions, lifestyle and interests



Is Al the answer to your problem?









Al4Business







