

# Describe the capabilities of AI Builder

## Identify the business value of AI Builder

- AI Builder allows you to use Artificial Intelligence in Power Apps.
- Uses Azure Machine Learning and Cognitive services.
- No need to write code or create Machine Learning models.
- Without the AI Builder, the above would require a high level of computer skills.

## 60+61. Describe use cases for AI Builder, including Sentiment Analysis and receipt processing

- Form processing model
  - Extracts text from images.
    - Works on JPG, PNG and unprotected PDF files.
    - Text-embedded PDFs as best.
  - To do this:
    - Fields - Enter names of fields, clicking + to add them.
    - Tables – Enter names of tables and columns to be extracted.
    - Create collections – groups of at least 5 documents with the same layout.
    - Analyze – AI Builder detects fields and tables.
    - Tag – Tag fields and tables (and tag the columns)
    - Train the model.
- Business card reader uses the form processing model
  - Reads an uploaded photo/picture.
  - If a business card, extracts required information.
  - No configuration required.
- Prediction model
  - Will something happen, based on past history data?
    - Binary prediction – Yes/No
    - Multiple outcome prediction – more than 2 outcomes.
    - Numerical prediction
  - To do this:
    - Entity – select the table that contains the data and outcome you want to predict.
    - Field – select the column that contains the outcome.
  - After training, AI Builder gives a grade A (best) to D (something is wrong).
- Object detection model
  - Identifies objects from uploaded images
  - Counts number of objects included.
  - To do this:
    - Select the domain, which is the use model:
      - Objects on retail shelves (products densely packed)
      - Brand logo (logo detection)
      - Common objects (anything else)
    - Provide object names

- Up to 500 per model.
    - Enter in AI Builder or select names from Dataverse.
  - Upload images
    - From local storage, SharePoint, or Azure Blob storage
  - Tag images
    - Tag at least 15 images per object name
- Text Category Classification
  - Categorises text by meaning.
  - Select text – select the table and column where text is stored.
  - Select tags – Select column where tags are stored.
  - Select language
  - Select Train my AI.
  - Can be used for:
    - Sentiment analysis – positive, negative, neutral or mixed,
    - Spam detection,
    - Customer request routing.
- Prebuilt models:
  - Key phrase Extraction model
  - Language detection model
  - Text recognition model
    - OCR printed and handwritten text from images
  - Text translational model