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| **Project details** | |
| Title |  |
| Lowering plastic packaging sold (in t): sold plastic packaging (in t), comparison to the business goals | |
| Background (summary of reasons for project sponsor’s interest in/significance of project) | |
| Lidl is desperate to lower the negative effect on the environment. In order to do that the business goal is to lower the sold plastic packaging with our product by 20% till 2025. By developing a data product which calculates the KPI of sold plastic packaging by the HU-contracted suppliers in tones and compare it to the goals an instant intervention would be possible in case of a risk. | |
| Statement of key problems, objectives and desired outcomes | |
| Key problems:   * evaluating the business goals is done quarterly * there is only a high effort possibility to follow the measures within the year, no forecast is available   Objectives:   * building a data product, which allows the user to see the sold plastic packaging in tones and to compare it with the business goals also by seeing the predicted outcome till end of business year   Desired outcomes:   * A dashboard with the following functions:   + allows the user to see the sold plastic packaging quantity in tones   + allows the user to compare it to the business goals   + uses calculation method based on sales   + sales figures can be loaded from database,   + give estimation till the end of business year for the run-out   + marks top items, which past / predicted values are significantly high and should be optimized (packaging change) * Notebooks:   + possible to re-run every quarter   + possible upload (csv) for:     - main item data     - targeted values   Data-science methods to be used:   * Model based prediction, data-cleaning, dashboarding. (Sales and goods-in based.)   + Receipt data analysis   + Predicting yearly outcome   + Importing main item data   + Dashboarding, creating visualization | |

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| **Project DETAILS** |  | | |
| Interim and final deliverables (incl. format of project presentation and technical discussion, target audience) | | | |
| Interim deliverables:   * Python notebooks which can be rerun * Dashboard uses the generated data * Possibility to upload main item data * Possibility to upload targeted values   Final deliverables:   * A dashboard with the following functions:   + allows the user to see the sold salt and sugar quantity in tones   + allows the user to compare it to the business goals   + uses two calculation method: sales and goods in based   + sales figures can be loaded from database, goods in should be imported manually (csv)   + give estimation till the end of business year for the run-out   + marks top items, which past / predicted values are significantly high and should be optimized (recipe change) * Notebooks:   + possible to re-run every month   + possible upload (csv) for:     - main item data     - targeted values     - goods-in values | | | |
| Methods of approach (e.g. data, information resources, software, methodologies, key contacts) | | | |
| Data-science methods to be used:   * Model based prediction, data-cleaning, dashboarding. (Sales and goods-in based.)   + Receipt data analysis   + Predicting yearly outcome   + Importing main item data   + Dashboarding, creating visualization   Software:   * Databricks platform * Databricks SQL-Dashboard   Key Contacts:   * Business requests and processes: József Fülöp * Data science methods: András Hegedűs / Dániel Szokolics | | | |
| Assumptions (e.g. expected input from client, possible constraints, expected location of work, exclusions) | | | |
| Inputs:   * receipt data line for desired data range * item main data * targeted values | | | |
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| **Initial HIGH-LEVEL project plan and schedule** | | | |
| Work breakdown and timing | | | |
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| Quality review procedure (review meetings) | | | |
| Individually set. | | | |
| Anticipated expenses if any (must be covered by project sponsor or client organization) | | | |
| None | | | |
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| **PROJECT SPONSOR** | | | |
| Name | Date | Signature (add name if sending by email) |
| József Fülöp | Click or tap to enter a date. |  |

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| **project sponsor** |
| Name / client organization | Date | Signature (add name if sending by email) |
| József Fülöp | Click or tap to enter a date. |  |