Applications of AI in Business: Assignment 5

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Task 1 (P/F)

Following what criteria business can perform model selection? Review notebooks 1-5, and ponder about how and why would you suggest a model for deploymnet in each practical/case (the cases with multiple models used). (Min 250 words, Max 1 A4 page)

Task 2 (P/F)

- Explore the *practical5 jupyter notebook*, fix 10 existing errors (e.g., semantic, logical, runtime, etc.), and submit notebook without errors.

- Reflect on the notebook structure: Steps on data preprocessing, model implementation. What what three top things you would do differently (better)? List what would you do differently and explain why.

Task 3 (P/F)

In notebook 2 from practical 2 (Lecture 2), we did implement many DPT tasks and simply implemented Xboosting Classifier. In this task, you are asked to implement at least 5 other classifiers, use cross-validation 5-Fold and extract metrics of validation (at least 2), and compare/discuss results.

Remarks & Deadline

- Deadline: June 5th, 2024 (No extensions!)

- This is an individual assignment. Group work is encouraged; if you worked with peers, please mention in your assignment the names of the colleagues you collaborated with. Also, even though the assignment can be done through discussions and contributions of many, each student should submit their own assignment.

- For tasks 2, and 3, please summarize your answers and present condensed results in a maximum of one A4 page for each task (including figures and/or text).

- You should hand in all files you used in a zip folder: Report with answers, codes (notebooks), and dataset (if applicable, alternatively, ensure that link to open-data is provided in the answer sheet).

- Submission should be made, before the deadline, on Canvas.