

AI3000- Artificial Intelligence for Business Applications

Group Assignment

Delivery and present the mandatory group assignments to enter the final exam.

Task:

Develop a concise business plan showcasing the integration of Artificial Intelligence (AI) in a chosen business area, highlighting how AI enhances processes, cuts costs, or boosts revenue.

The group will choose a topic or theme, focuses on how AI enhances processes, minimizes costs, or maximizes revenue for a business application area. Select a topic, create a business plan focusing on AI's role, describe the model, and present its benefits and challenges. Choose from provided topics or propose your own, with instructor approval. Customize the structure to fit your topic while covering all essential aspects. This assignment prepares you for real-world AI applications and the final exam. One of the example structures is as follows:

1. **Instruction** (Problem definition, goal statement, the market and competitive landscape, benefits, and risks of applying AI, etc.)
2. **AI Model** (This should be the main body, including the description of data sources, data preparation, algorithms, evaluation of the model and how it works)
3. **Implementation and other aspects** (Business model, management strategy, etc.)
4. **Conclusion**

You need to provide your aim stating why you choose that topic, identify the problem you want to solve, describe the field of the applications, and state the concept clearly. You need to develop, build, or research on the types of machine learning algorithms that can be used for the topic you choose. You need to describe the data sources, data preparation, model building and evaluation of the model. You are also encouraged to describe the user interface, business model, implementation plan and any other aspects that are important to make this plan complete.

- Students need to form a group by themselves, 4-6 group members, choose a topic, and get the topic approved by the lecturer.
- Feedback will be given throughout the semester if the student requests it. You can also get feedback by making appointments on defined days with the class lecturer.

Application area examples (choose one):

- AI and energy consumption

- AI and online retail business
- AI and image captioning
- AI and warehouse space management
- AI and dynamic product pricing
- AI and traffic light systems
- AI and computational neuroscience
- AI and delivery route
- AI and Supply Chain
- AI and personalized shopping experience
- AI and stock trading
- AI and agriculture and smart farming
- AI and healthcare
- AI and military
- AI and human resources
- AI and learning
- AI and recommendation engines and collaborative filtering
- AI and banking
- Other topics that you want to address.

Important:

- No plagiarism!
- Reference, ask for help from the library if needed.

Page limit:

The report should be 4-6 pages, including figures (3-5 pages if no figure). Include a full reference list at the end of the report. The page count does not include the reference list. Format Use Times New Roman, 12pt, 1.5 line spacing. The reference list should be written using American professional Association (APA 7) reference style. For a description of styles, see the following:

<https://kildekompasset.no/en/referencing-styles/apa-7th/>

Deadline:

Deadline for submitting the written report: Monday, October 30th at 23:59. The assignment will be presented in class in a 15 min presentation on November 16th.

Submission: Group Submission through Canvas
