

Debre Berhan University
College of Computing Sciences
Department of Computer Science
Introduction to Artificial Intelligence

Group project

Develop an artificial intelligence project utilizing the Python programming language. Here is what your project report should include:

- 1. Introduction:** An introduction to the topic and techniques you have applied to your project.
- 2. Define the Problem (Statement of the Problem):** Clearly define the problem you want to solve.
- 3. Objectives of the project:** What is the objectives of your project?
- 4. Scope and limitation of the project:** The boundaries of your project and the constraints such as time, budget, resources, and technology may affect its execution and success.
- 5. Significance of the project:** The importance of your project in achieving specific strategic goals, solving problems, or bringing about important changes or advances.
- 6. Conclusion:** Summarize your project work.

Note: Document your project thoroughly. A presentation is a must to showcase your project and demonstrate its functionality in action.

Project topics/titles in Artificial Intelligence:

Discuss with your group members and select a project topic that interests all of you. It could be related to expert systems, natural language processing, machine learning, robotics, computer vision, neural networks or deep learning. You can choose from the listed topics or explore additional ones.

- | | |
|----------------------------------|--------------------------------|
| → Question Answering (Chatbot) | → Image classification |
| ○ AI chatbot in customer support | → Object detection |
| ○ Banking Chatbot | → Text-to-Speech |
| ○ AI Healthcare Bot System | → Speech-to-text |
| ○ Student Information Chatbot | → Spelling & Grammar checker |
| → Text classification | → Plagiarism detection/checker |
| → Document classification | → Next-word-prediction |
| → Natural Language Translation | → Text summarization |

- Optical character recognition
- Named entity recognition
- Language detection
- Fake News detection
- Recommendation systems
- Decision support systems
- Image recognition
 - Face Recognition Attendance System for Employees/students
- Medical Diagnosis
 - Heart Disease Prediction
 - Skin Disease Detection System
 - Cancer Disease Prediction
 - Heart Disease Prediction
- Others

You can use the following website for a dataset used to train and test your machine or model!

- <https://datasetsearch.research.google.com/>
- <https://www.kaggle.com/datasets>
- <https://data.gov/>
- <https://archive.ics.uci.edu/datasets>
- *You can also prepare your primary dataset*

Submission Date:

Presentation Date: