

ACM - AI

Recruitment Tasks S4

AI Task 1 – Deep Learning

Objective

- Complete the Introduction to Deep Learning Module in Kaggle
- Build a small DNN architecture and train the model using a random Image Classification Dataset

Submission: Create a "Task1" folder in your submission repository. Upload the completion certificate and Jupyter Notebook of your implementation

AI Task 2 – Using trained models

Objective

- Select a well-known or preferred LLM model (**GPT, LLaMa, Mistral, Gemini etc.**) from any of the open sources (**Hugging face, Git, Kaggle etc.**) (**Offline / API is accepted**)
- Create a chat interface using Streamlit or any preferred GUI tool.
- Develop an interactive Chatbot utilizing the selected model and GUI. (Clearly elaborate on the model details, description, and source in a PDF within the project folder.)

Submission: Push the entire project folder as Task2 into your GitHub repository, including a brief video demonstrating Bot interaction in Markdown. Exclude model weights from the folder if they exceed a heavy size.

AI Task 3 – Transfer Learning

Objective

- Select a model (**YOLO or Res-Net or SSD**) of your choice and do the transfer learning on the model with a random object detection Dataset taken from Kaggle, UCI etc. (Model performance and metrics will be checked, evaluate model performance and metrics, providing a concise overview of the model architecture and a thorough explanation of each step in adjacent Markdown.)

Submission : Along with the above tasks the following Notebook should be pushed in a Task3 folder in your submission Git Repo

NOTE : Make sure to organize your submission according to the given instructions. If you have any questions or need clarification, feel free to ask. The submission will be done through a separate submission link where you will have to submit your GitHub link of the tasks.

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ALL THE BEST