

Graduation Project Week #7

Meeting Minutes

* Agenda

1. Presentation of two research paper
2. Discussing the progress of data standardization
3. GANS samples generation progress discussion
4. Planning next steps for next week

* Meeting Points

- Data Reorganization and Standardization:
 - Discussed the progress made in standardizing and sampling the dataset.
 - Requested modifications to further improve the process.
- Synthetic Data Progress:
 - Reviewed the new approach to data generation.
 - Suggested the introduction of a no-flow zone inside the infarction.
 - Added the use of morphological filters for better results.
 - Proposed label manipulation techniques to generate more data.
- Paper Presentation and Discussion:
 - Presented and discussed two papers titled "Preparing Medical Imaging Data for Machine Learning (2020)" and "Data Preparation for Artificial Intelligence in Medical Imaging: A Comprehensive Guide to Open-Access Platforms and Tools (2021)."

* Attendees

Omar Emad
Omar Nabil (Leader)
Khaled Badr (Presenter)
Hana Hesham

* Planning Next Meeting

- Courses: Highest priority assigned to making progress on ongoing courses.
- Data Modifications: Apply the requested modifications to the dataset.
- Model Research: Search for models capable of performing localization or segmentation of the heart from images.
- Synthetic Data: Apply the suggested techniques.
- Paper Presentations: Decided on the paper to be presented at the next meeting.