

PROJECT PROPOSAL

You can find a sample proposal here!

What is the title of your project?	Using segmentation to analyze neuromuscular systems
Background (Write about 200-300 words about what your project focuses on)	This project uses the machine learning technique of segmentation to identify certain neurons. The model will learn from a dataset of mice brain pictures with some fluorescent neurons. It will use the data from these picture to tune itself so that it can identify neurons in new pictures. This has several applications, from finding diseased neurons to identifying neurons that have been marked for a biological experiment.
What is the subject area you're covering? (E.g. AI and Healthcare, Data Science and...)	AI and Cellular Biology
What is the dataset you're using? Please either add the link or name what the dataset is called.	https://www.kaggle.com/datasets/nbroad/fluorescent-neuronal-cells
If you're doing a research paper, what is the research question you're aiming to answer?	How can we make an effective ML model that can identify and count diseased neurons in a brain?
What is the final project form that you and your mentor have chosen? <ul style="list-style-type: none">- Presentation- Research Paper- Short Write up- Other (Please explain)	Research Paper