Data science projects

The results themselves (% of good classification, biological relevance...) are not what are evaluated. What is important is how you frame a question from the dataset and your paths to finding an answer.

- Project 1: Correlation between brain tumor morphology and its type
- Dataset: https://www.kaggle.com/datasets/alaminbhuyan/mri-image-data
- Research Question: Can tumor morphological features extracted from brain MRI images be used to differentiate between different types of brain tumors, including glioma, meningioma, pituitary tumors, and cases with no tumors?
- **Project 2:** ocular disease detection based on retinal vessels branching pattern
- Dataset: https://www.kaggle.com/datasets/abdallahwagih/retina-blood-vessel/data
- Research Question: Clustering based on branching pattern and see if there exists a relation between each cluster and a disease (by reading articles)