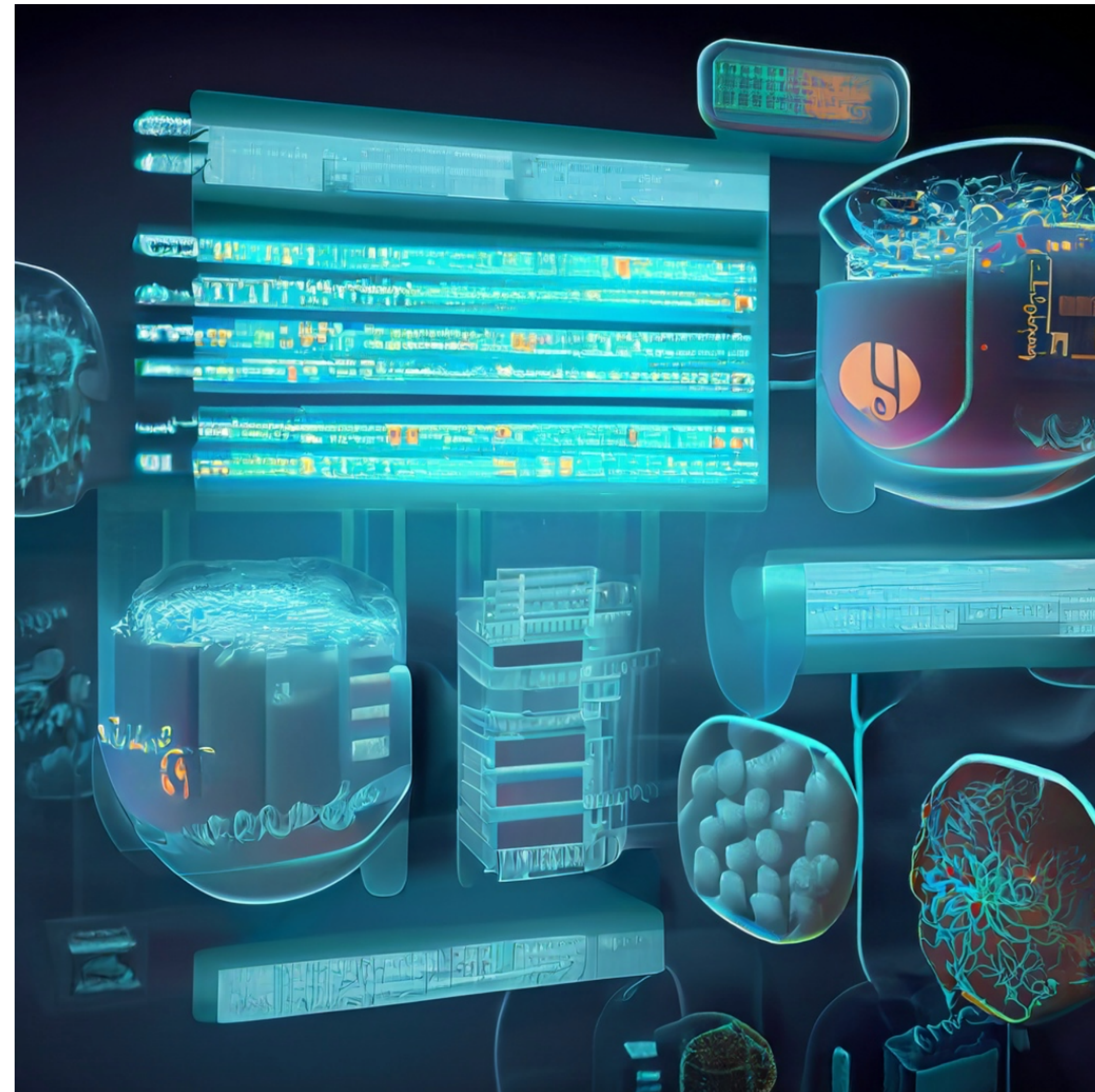


Working with Biological Databases



Overview

Review of Computing Labs - Biological Databases

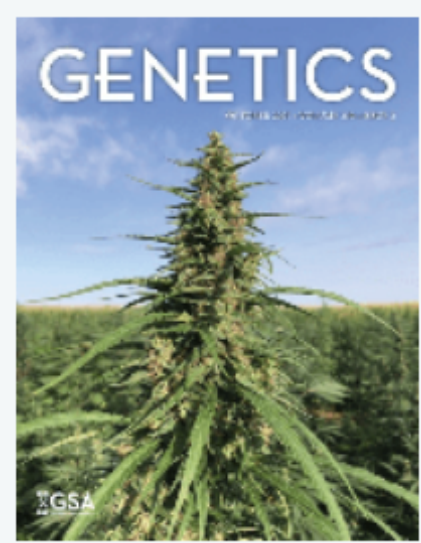
- explanation and discussion of approaches and code
- notebooks and solutions
- Q&A

Learning Objectives

- develop Python skills for data retrieval and handling (python libraries)
- familiarity with use of API “end points”
- summarising and presenting data

Week 7 - Ontologies & Functional Enrichment Analysis

This week we're stepping away from Pevsner briefly to delve into the world of ontologies. Here are two references for you to read which are also available via the course Resource List.



Gene Ontology Consortium. The Gene Ontology knowledgebase in 2023. *Genetics*. 2023 May 4;224(1):iyad031. doi: 10.1093/genetics/iyad031



Subramanian A, Tamayo P, Mootha VK, Mukherjee S, Ebert BL, Gillette MA, Paulovich A, Pomeroy SL, Golub TR, Lander ES, Mesirov JP. Gene set enrichment analysis: a knowledge-based approach for interpreting genome-wide expression profiles. *Proc Natl Acad Sci U S A*. 2005 Oct 25;102(43):15545-50. doi: 10.1073/pnas.0506580102. Epub 2005 Sep 30.