differential—equations model molecular—dynamics spatial—data matrix high—performance—computing aph—algorithms petsc. computer-vision julialang graph netcdf graph—algorithms particle kinematics neuroimaging scientific-computing gpu-computing signal-processing numba neural-network meteorology time-series neural-network julia-language pathogen processing time-series-analysis nested-sampling neuroscience data-visualization finite-elements correlation bayes-factors workflow exoplanetseasystats geospatial database mathematics pipeline amr regression weather plotting singularity fortran package fem models datasets cfd forecasting covid-19 modeling pde closember eda genomics  $\emptyset$ 0 băyesian hep research 0 hpctensorflow dataset biology audio dna derfest py mapping cosmology guidockerpandas geophysics classification parallel simulations numpy matlab materials—scien parser analysis shiny spatial-analysis genome reprodu parsing music hydrology climate bayesian-inference explainable-ai spectroscopygraph-theory ggplot2 experiments text-mining javascriptbayesian-statistics network-analysis neural-networks genetics reproducible—research neural—networks genet nology reinforcement—learning psychology biomarkers