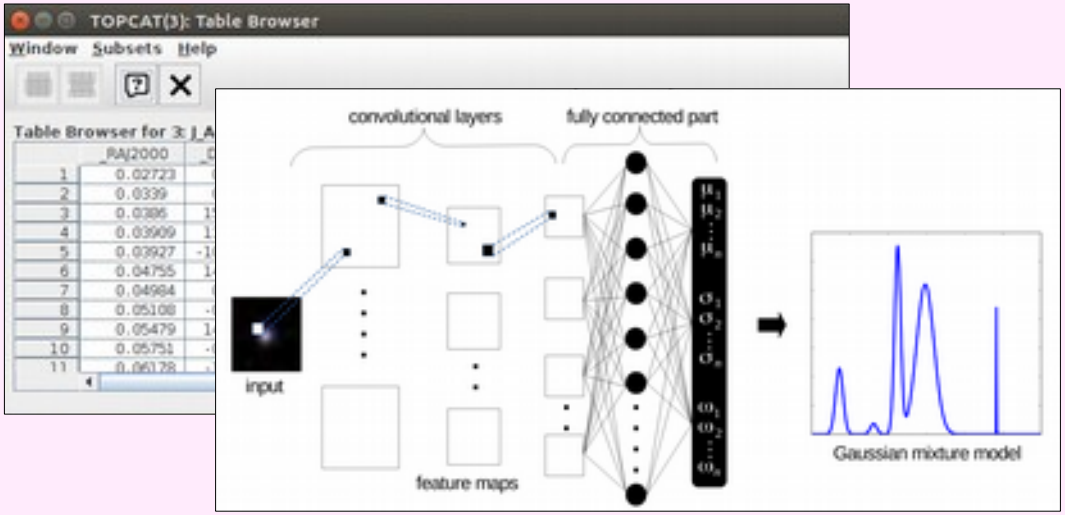
KDIG / ongoing work

Database storage for ML

- store uncertainties
- queries with uncertainty
- reproducibility / training & validation data
- provenance



Explorative access

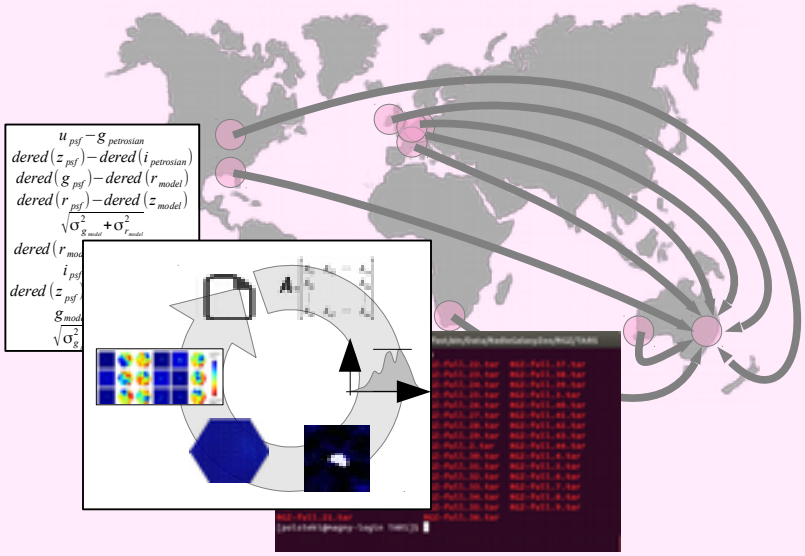
- developing prototypes
- implementing simple functionalities
- defining requirements
- annotation: semantics/DM

Mostert 2017

KDIG / ongoing work

Bringing code to the data

- how to find resources
- how to package code
- how to register functionalities
- how to orchestrate workflows across different centers



Discussion: is the VO a digital plate archive or an observatory?

- machine learning analysis is building telescopes for a virtual sky
- tables are great but how to do data-science on images, spectra, cubes, time-series? (Single Source Science)
- are science platforms a solution? how do we standardize those
- deliver some toy use cases to see how we can solve those

KDIG Related Sessions

KDIG Session

Monday May 13 - Salle Danjon - 17:00 - 18:30

Speaker	Title	Duration	Materials
Kai Polsterer	Introduction	3'	
Petr Skoda	deep learning methods on LAMOST DR2	20' + 6'	
Antonio D'Isanto	Is VO ready for machine learning?	20' + 6'	
All	Open Discussion: are we ready for data-science?	35'	

are we ready for data science?

Machine Learning in astronomy → Astroinformatics 2019 in Pasadena