

Project plan internship

LaBRI

Iris Loret

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Who?

LaBRI

- Research lab
- Computer science
- Mission: research, training and transfer

Université de Bordeaux

- University: IUT

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Who?

Romain Giot

- Research assistant + associate professor
- Machine learning and information visualization

Romain Bourqui

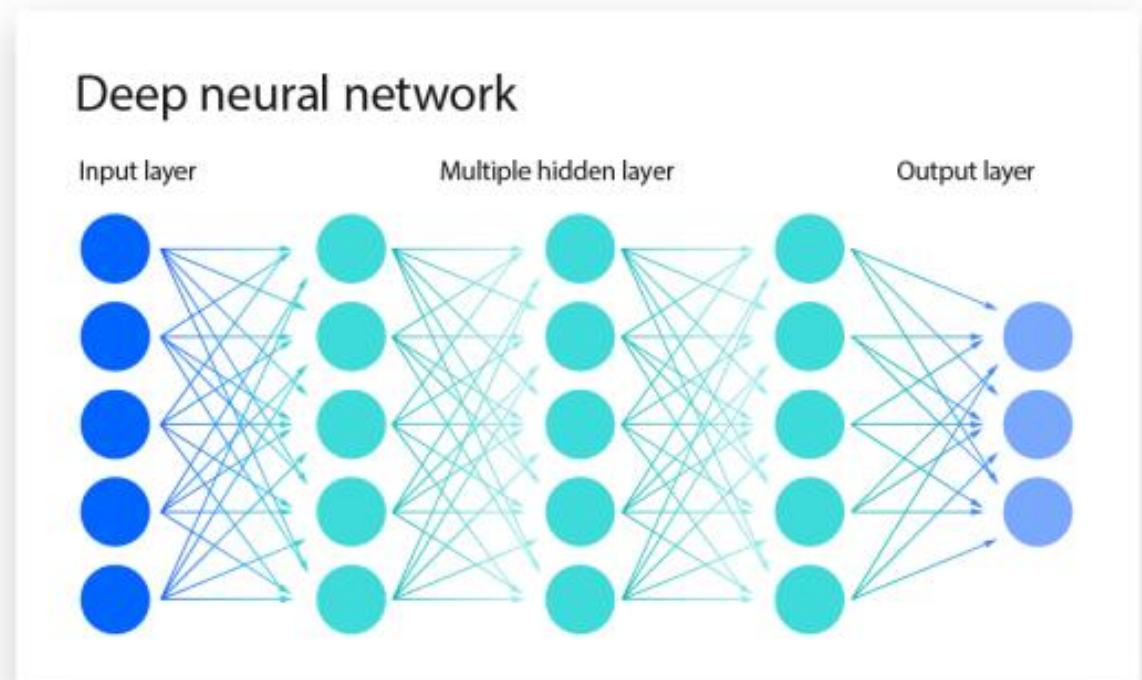
- Head of BKB team + associate professor
- Information visualization + deep learning

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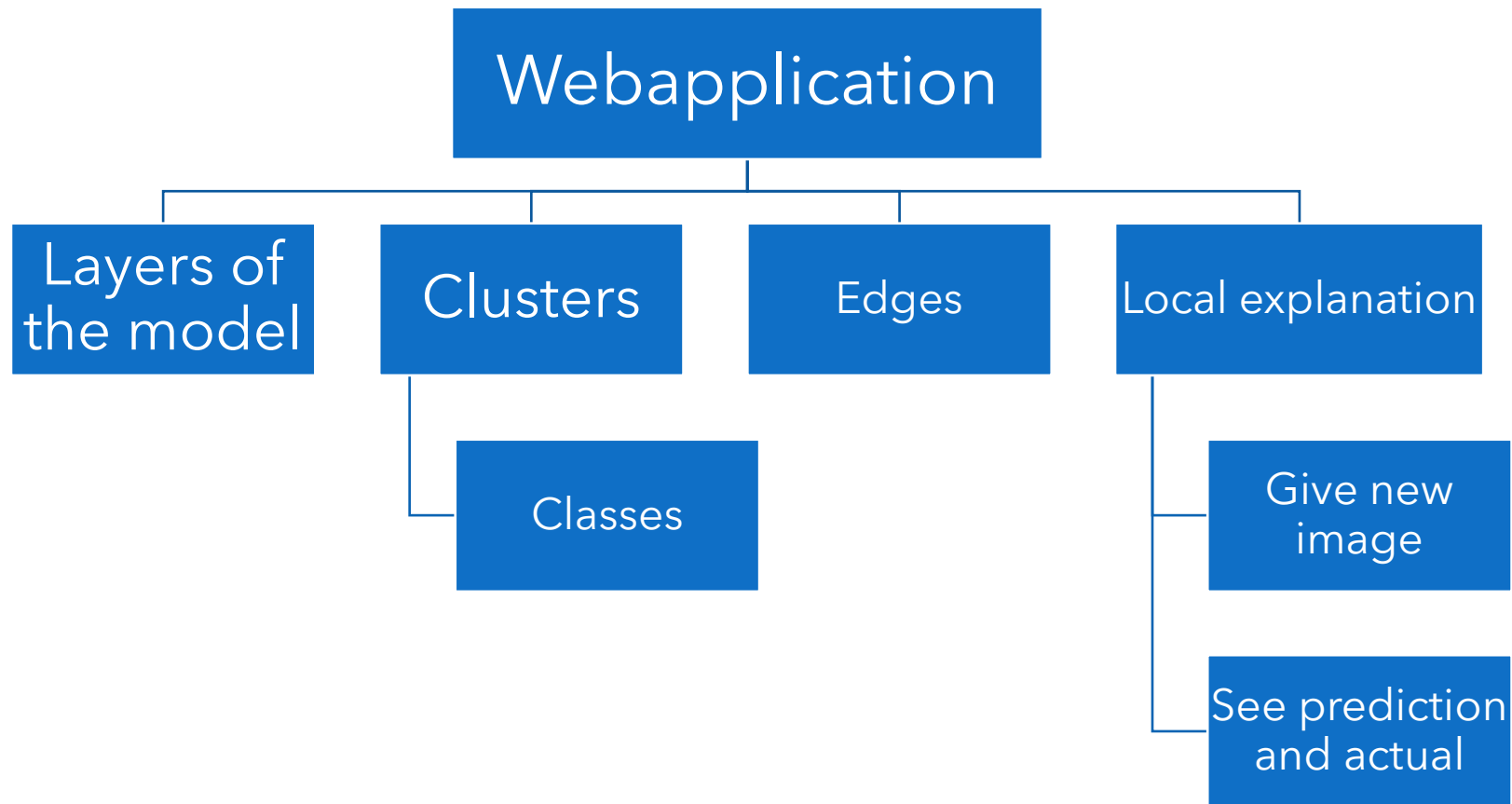
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What? → Deep Learning Model Analysis and Visualization

- Layers of a deep learning model
- Activations modelled in clusters
- Connected by edges



What? → Deep Learning Model Analysis and Visualization



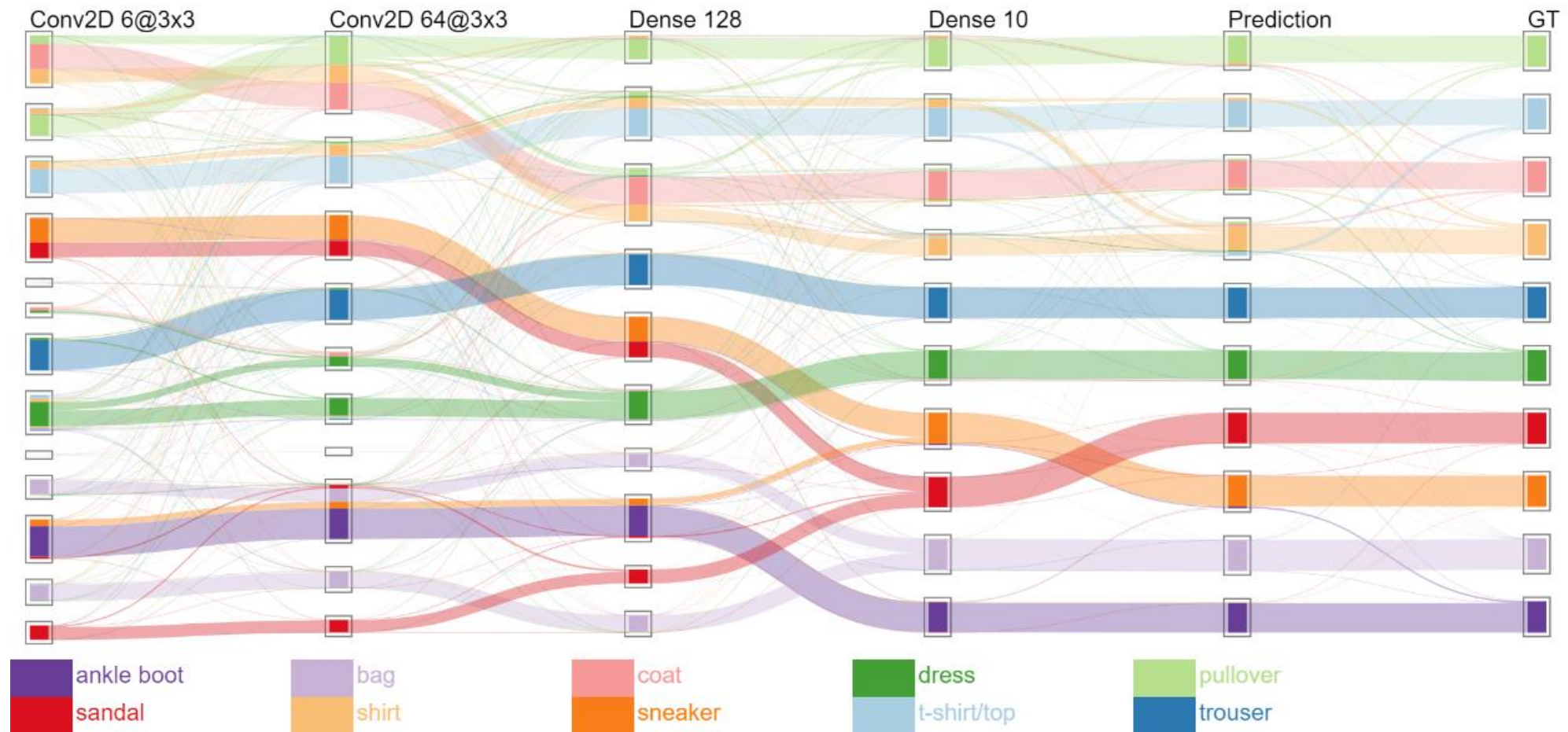
Expected result

Webapplication

- See all the layers + data of the model
- See the edges and where every edge goes to
- See the activations at the different layers
- Clusters with the class names
- Local explanation with image

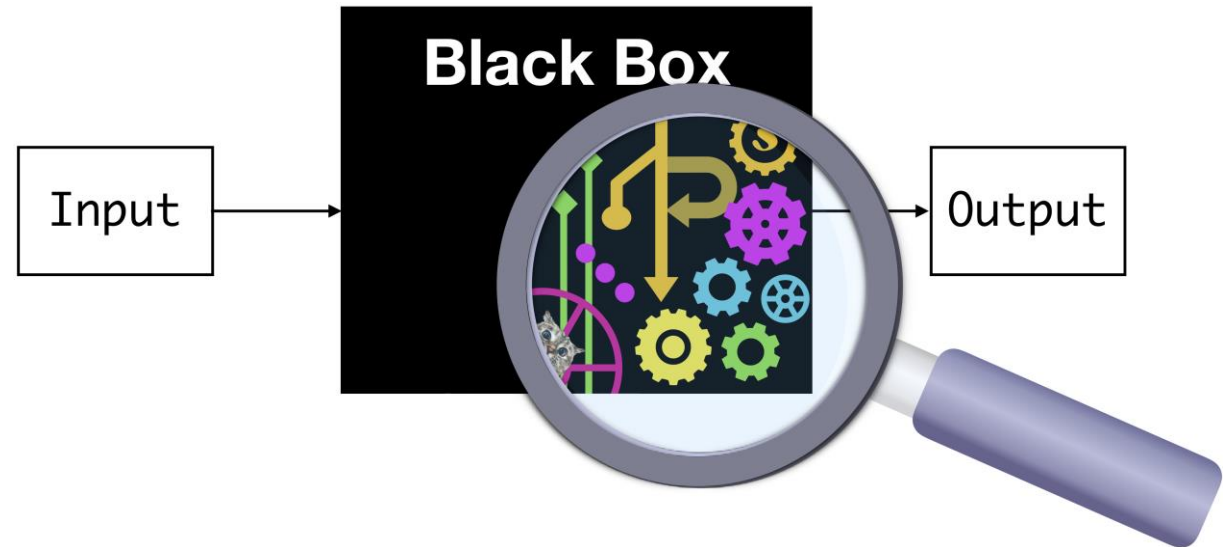
Expected result

- <https://pivert.labri.fr/flows/index.html>

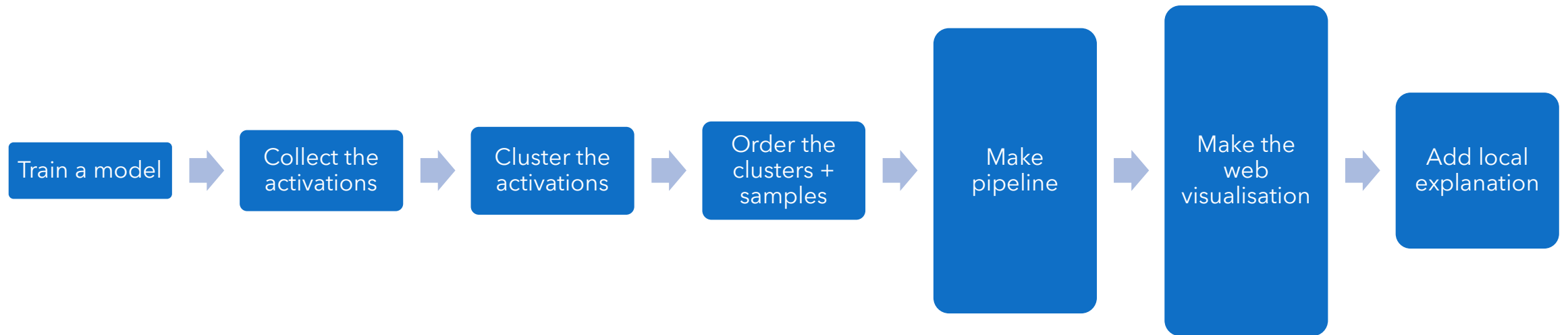


Why?

- AI model = blackbox:
 - What happens in the layers?
 - Legal = critical domain
→ not able to explain result
 - Acceptance of user
→ why this result?
- Research:
 - Design new models
 - Improve existing models

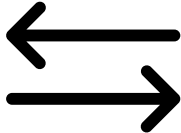


Timeline



= how much time

Risks

- Not finished in time  project hand-over

Communication

Weekly status report

- Every week
- What I did
- What problems
- Which solutions

Week 3: meeting

- Presentation updated project plan
- Supervisor

Before week 7

- Intermediate 'formative' evaluation
- Discussed by mentor and student

Communication

Week 8: meeting

- Presentation of the realizations
- Overview of the documents
- Work still to be done
- Supervisor

Documentation

- Project plan
- Evidence for realization
- Summary
- Reflection
- Project hand-over

Final evaluation

- Discussed by mentor and student

Thank you for your attention!

Iris Loret