Our research will make use of publicly available VQA datasets such as GQA, instances for which the system fails. We could use contrast pattern mining techniques for this. A possible solution is to drop this assumption and mine neuron activation patterns that identify the model they try to explain, i.e., they are model-agnostic. In the context of VQA systems, a traditional post-hoc interpretability module does not make any assumptions about the architecture of the model they try to explain, i.e., they are model-agnostic. In the context of VQA systems, a possible solution is to drop this assumption and mine neuron activation patterns that identify the instances for which the system fails. We could use contrast pattern mining techniques for this purpose.

Our research will make use of publicly available VQA datasets such as GQA, VQA-1.0, C-VQA, and CLEVR.
Compétences

We are searching for motivated candidates with a PhD degree in Computer Science and with competences in machine learning (preferably with focus on deep learning). Knowledge in data mining, e.g., sequence and itemset mining, will be also appreciated.

The candidate should be proficient in written and spoken English (at least B2 level according to the CEFR system).

Avantages

- Subsidized meals
- Partial reimbursement of public transport costs
- Leave: 7 weeks of annual leave + 10 extra days off due to RTT (statutory reduction in working hours) + possibility of exceptional leave (sick children, moving home, etc.)
- Possibility of teleworking (after 6 months of employment) and flexible organization of working hours
- Professional equipment available (videoconferencing, loan of computer equipment, etc.)
- Social, cultural and sports events and activities
- Access to vocational training
- Social security coverage

Rémunération

Gross monthly salary (before taxes): 2653 €