Our research will make use of publicly available VQA datasets such as GQA, purpose.

Other recent approaches to signal interesting associations automatically, e.g., pointy borders in a bird may refer to its beak. Such explanations could be enhanced with semantic knowledge, such as a taxonomy, in order to the domain of the visual question answering. Attaining such a goal requires us to overcome other challenges such as understanding what makes a good explanation in a multi-modal setting.

The complexity of existing VQA solutions makes the task of inspection and debugging very hard. In particular, neural networks are black-box models: one requires a significant amount of work and solid expertise to understand the inner-workings of the network. It becomes therefore very difficult to understand why a VQA system makes a mistake. Such a task, however, is vital for the progress of research in VQA.

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Assignment

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Our research will make use of publicly available VQA datasets such as GQA, VQA-2, C-VQA, and CLEVR.
Skills
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).

Benefits package
- 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

Remuneration
Gross monthly salary (before taxes): 2653 €