Which famous novelist also wrote under the name Richard Bachman?

Richard Bachman is a pen name for fiction author Stephen King.

**Which US artist married Lee Krasner in 1945?**

Lee Krasner and Jackson Pollock established a relationship with one another in 1942 after they both exhibited at the McMillen Gallery. In the summer of 1945, they got married in a church, Krasner continued to identify herself as Jewish but decided to not practice the religion.

**Results on TriviaQA**

- **TriviaQA Wikipedia and Web**
- **Architecture Ablations**

**Multiloss Architecture**

- **Cascade of models arranged by levels,**
  - **Level 1:** Averaged Bag of Words
  - **Level 2:** Sentence in Context
  - **Level 3:** Aggregating Identical Mentions

**Handling distant supervision:**

- The exact occurrence of the correct span is treated as a latent variable.
- Probability of all occurrences maximized.

**Distant Supervision**

- TriviaQA (Joshi et al., 2017) with questions and answers taken from trivia websites.
- Wikipedia and web pages provided as sources of evidence, independent of the QA pairs.
- Documents contain the answer strings, but are not guaranteed to contain any evidence to answer the questions.

**Challenges**

- Read multiple documents in their entirety.
- Answers occurrences, though repeated, may not contain adequate evidence to answer the question.

**Longer Document Context**

- Longer the context considered, better the chances of correctly answering a question.
- Tradeoff: efficiency.
- Simple feed-forward nets.

**Multiple Mentions of Answers**

- Not each mention of the answer is relevant or sufficient to answer the question.
- Need to aggregate information across multiple mentions.

**Analysis of Performance**

- **Speed vs LSTMs**
- **Effect of Truncation**
- **Top k performance**

**Take-home lessons**

- Multiloss formulation helps.
- Aggregation is necessary.
- Context is important for comprehension.

**Common Mistakes**

- Confusing similar entities within a sentence.
- Question entities as answers.

**Leaderboard**

- **Multiloss Architecture**
  - **Multiloss Formulation:** Each level is associated with its own loss (Al-Rfou et al., 2016).

**Levels**

1. **Level 1:** Averaged Bag of Words
2. **Level 2:** Sentence in Context
3. **Level 3:** Aggregating Identical Mentions

**Leaderboard Results**

- **Exact Match**
  - Level 1: 48.64
  - Level 2: 50.56
  - Level 3: 51.59
  - Levels 1 + 2: 52.18
  - Levels 1 + 2 + 3: 53.75

- **Multi-Mention Learning for Reading Comprehension**

- **Distant Supervision**

- **Longer the context** considered, better the chances of correctly answering a question.

- **Tradeoff:** efficiency.

- **Simple feed-forward nets.**

- **Multiple Mentions of Answers**

- Not each mention of the answer is relevant or sufficient to answer the question.

- Need to aggregate information across multiple mentions.

**Conclusion**

- The exact occurrence of the correct span is treated as a latent variable.
- Probability of all occurrences maximized.