

# CERTIFICATE OF PARTICIPATION

AI CHALLENGE: SUMMARISING NEWS  
JUNCTION 2017



I (Max E. A. Pagels, MSc) am proud to confirm that **Maxim Artemev** has taken part Nordcloud's news summarisation AI challenge at Junction, the largest hackathon in Europe. This year's Junction was held in Otaniemi, Finland, from 24-26 November.

Maxim and his team's submission, *News Articles for Mature Folks*, provides AI-powered trending news to the masses via a beautiful React-based web interface. The application clusters related news article using TF-IDF weighting and K-means, creates automatic summaries based on several source articles (thereby combatting journalist and publication bias), and even uses a recurrent neural network with attention mechanisms to generate headlines based on article bodies.

In addition to the above, the team implemented, from scratch, a state-of-the art sequence-to-sequence neural network learning algorithm that is based entirely on multi-head attention. This is especially noteworthy considering the fundamental research from Google related to this approach was published only a few months ago (see [1]).

Based on all of the aforementioned contributions, **I am extremely proud to verify that Maxim and his team won the entire AI challenge**. Accomplishing so much during two days, in a subfield of natural language processing and machine learning that is extremely challenging, is a stunning achievement worthy of exceptional praise. I wholeheartedly endorse Maxim's skills in software engineering, machine learning and particularly the area of text summarisation.

## About the referee

*Max E. A. Pagels, is a Data Science Specialist at SC5, a software consultancy based in Helsinki that focuses on intelligent digital services. Max has worked on machine learning for some of the largest companies in the Nordics, including Veikkaus, Finland's state-owned gaming company and the largest eCommerce site in Finland. He holds BSc and MSc degrees from the Department of Computer Science at the University of Helsinki, and has published several peer-reviewed articles on software engineering in prestigious journals including IEEE Software & Information and Software Technology (IST).*

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## References

[1]: Attention Is All You Need, URI: <https://arxiv.org/abs/1706.03762>