

PRESS INFORMATION

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InstaDeep Wins Competitive Tender with Deutsche Bahn to Develop an AI System to Digitise Railway Operations

The contract to develop a Deep Reinforcement Learning-powered CTMS AI prototyping tool is part of a 12-year digitisation initiative to make the German railway fit for the 21st century.



LONDON, 30 OCT 2019 -- Deutsche Bahn [recently announced](#) that that InstaDeep has been awarded the contract to research and develop an AI product to support the transformation of Deutsche Bahn's initiative to automate railway planning and dispatching. InstaDeep's AI-based decision-making system uses a combination of Operations Research (OR) combined with Deep Reinforcement Learning (RL), an area where InstaDeep has had numerous successes over the last few years.

Digitise German railway operations

The contract is the result of a public tender issued by DB's Digital Rail for Germany sector program this August to develop a Capacity & Traffic Management System (CTMS) aiming to digitise the German railway operations. The central planning and control unit is a core component of the company's long-term digitisation plan which aims to explore new fields of technology for an optimised railway system suitable for today's increasingly automated environment.

Great Synergy

The contract win, publicly announced by Deutsche Bahn end of September, is a huge milestone for InstaDeep and an incredible opportunity for us to showcase our expertise and the work which has led us here. "By awarding us the tender contract, Deutsche Bahn are demonstrating their trust in our ability to deliver. An important success factor was undoubtedly our track record offering innovative AI products and solutions in areas where few competitors can demonstrate previous commercial success" says Karim Beguir, Co-Founder & CEO of InstaDeep.

Furthermore, Karim believes InstaDeep's advanced methodology suits the forward-thinking railway operator. "We differentiate ourselves by applying Deep Reinforcement Learning combined with Operations Research on real, practical use cases. Hence, we see great synergies with Deutsche Bahn. By optimising existing processes, our approach can unlock new efficiencies for our partners, and we are very excited by this collaboration".

With the project team already on-prem in Germany, we look forward to seeing the collaboration come to fruition.

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For more information contact communications@instadeep.com or call +44(0)74 4917 8814.

ABOUT INSTADEEP

Founded in Tunis in 2014 by Karim Beguir and Zohra Slim, InstaDeep is today an industry renowned AI company delivering bespoke product and solutions to our enterprise clients. Headquartered out of London, the company also has offices in Paris, Tunis, Nairobi and Lagos.

Powered by high-performance computing and outstanding research and development breakthroughs, InstaDeep utilises Deep Reinforcement Learning to create AI products that can optimise decision-making processes in real-life industrial environments. Our skilled in-house team of AI researchers, Machine Learning engineers, Hardware and Visualisation experts, harness the expertise to build end-to-end products that can tackle the most challenging optimisation and automation challenges, and provide real value and ROI to businesses.

InstaDeep works closely with its strategic partners including NVIDIA (Service Delivery Partner), Google, Intel, Deep Learning Indaba, Plug And Play, Facebook Developer Circles and others, to support the rise of AI across the globe.

InstaDeep was named one of the 20 global tech start-up companies to watch at the MWC 2017 by PCMag¹, and shortlisted for The Sunday Times Tech Track "ones to watch" in 2019. Out of a [130 certified Google Developer Experts](#) in Machine Learning worldwide (September 2019), four employees at InstaDeep hold the title including Karim. Our competencies were recently recognised by the prestigious AI conference NeurIPS 2019 as their newest research, in collaboration with Scoot Reid and Nando de Freitas from Google DeepMind, ranked amongst the global top 2.4% of papers and was awarded a spotlight presentation at the upcoming event in Vancouver, Canada, this December.

www.instadeep.com

¹ <https://www.pcmag.com/feature/352129/mwc-2017-20-intriguing-global-startups-to-watch>