SCIENTIFIC
MACHINE LEARNING
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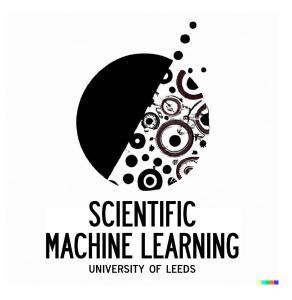
Hi <<Don't put your details here!>>,

On Friday we have a talk by Dr Ryan Keisler, who will be joining us virtually to talk about Graph Neural Networks!

Come along in person to our room in LIDA, Worsley Building Room 11.87, where cake and hot drinks will be available.

We also are still accepting signups on the interest form for the AIUK 2024 conference. If you're interested in a funded place to attend next year, make sure you register interest using the link below.

Any questions, please feel free to reply to this email.

Forecasting Global Weather with Graph Neural Networks

Ryan Keisler, *KoBold* Metals

Friday 10th November - 3-4pm (Worsley Room 11.87)
[Teams link if joining remotely.](#)

Abstract:

This talk will focus on the application of a specific deep learning approach, graph neural networks, to the problem of forecasting global weather. A data-driven model was trained to step forward the current 3D atmospheric state by six hours, and multiple steps are chained together to produce skillful forecasts going out several days into the future. Our primary aim is to showcase a real-world use case in which a deep learning approach can efficiently approach or even surpass the predictive power of a traditional physical simulator.

Bio:

Ryan is a physicist working at the intersection of sensor data and data science. He is a Staff Data Scientist at KoBold Metals, where he uses his background in physics and data science to search for new deposits of battery metals. Previously Ryan was Chief Scientist at Descartes Labs and a cosmologist at the University of Chicago and Stanford University.

SciML Leeds: AI UK 2024 Register Your Interest

We are excited to **offer an opportunity for up to ~15 individuals to attend AI UK**, the UK's national showcase of data science and artificial intelligence, taking place in London on the 19th-20th March. https://ai-uk.turing.ac.uk

There is the possibility of **funding to cover expenses including tickets, transport, and accommodation**. As such, we are assessing interest for the next week.

Please complete the form below to register your interest in attending AI UK. As part of your registration, please provide 1-2 sentences about your motivation for attending the event.

Additionally, please note that if funded, we expect to write a blog post for Leeds Institute for Data Analytics (LIDA) featuring attendee's experiences at AI UK.

Register your interest here

https://sciml-leeds.github.io