

Peer Review of Poster

Intern Name: Alec Hewitt

Writing a Peer Review of: Yaoyuan Xu

Yaoyuan's presentation was called 'Inferencing Techniques and Optimizations for Graph Neural Network'. The project started off as an algorithm that could track the trajectories of particles with the help of a Neural network, this involved taking trajectories of particles in 3 dimensions. They they embedded these 3 dimensions in an 8 dimensional space, the other 5 dimensions consists of other features of the points including things such as energy and momentum. They then cluster this in 8 dimensions using FAISS, which used a neural network then and afterwards associate these clusters with the original 3 dimensional trajectories, which was successful at showing which particles belong to which path. His work in the project mainly focused on optimizing the time it takes to do this procedure and optimizing the neural network.

His presentation was very informative and he understood the material very well . It was easy to follow, the central diagram was incredibly helpful and it was the central idea of the project. It gives you enough information to understand the basics of what is going on and the rest of the poster has much more info that has the potential to answer many questions that the audience may have. The use of visual aid was one of the strongest aspects of the project, however in some of the diagrams the text was blurry but this could have been due to the resolution on the four waves platform.

He was quite good at explaining concepts and answering questions so it is likely that he rehearsed or thought about the project quite a bit. Initially, the presentation was a bit choppy but it quickly smoothened out, I would assume this is because he became

more comfortable with presenting and his knowledge on the subject. It did not appear that he used any notes and you could say he consistently made eye contact, whatever that means!