Dear Eurail,

With this letter, I would like to offer my candidacy for the Machine Learning Engineer Intern position.

This position seems to be at an intersection of two defining areas of my life. I've been studying Artificial Intelligence for nearly five years now and I've developed a keen interest in the mathematical foundations of Machine Learning and Data Science. I am interested in "opening the black box"— not only creating models that *work,* but understanding *why* they work (and why some wouldn't).

Beyond the technical, I have a profound appreciation for what Eurail facilitates. My years as a student studying abroad have allowed me to create a global network of friends and in a world where people are increasingly mobile, the ability to maintain these connections across borders is vital. Having said that, I believe that there is a unique *elegance* to rail travel—the simplicity of boarding in one city center and arriving in another country's capital a few hours later is still magical to me. It is a mode of travel that fosters human connection in a way that most other modes of transport are hard pressed to replicate.

I see this internship as an opportunity to use my technical skills to enhance the ease of travel Eurail provides. Whether through predictive modeling for demand, optimizing pricing strategies or collaborating on data-driven solutions with national railway partners, I would be excited to contribute to Eurail's mission.

Thank you for your time and consideration. I look forward to the possibility of discussing the ways I can contribute to the Eurail team.

Sincerely,

Áron Ferencz