Subject: reference letter for François Goybet

Dear Sir/Madam,

I had the pleasure of supervising François Goybet during his internship at Getlink and Eurotunnel, where he was working on two topics key to maintaining the Channel Tunnel and our train operations.

During his internship, François conducted a comprehensive analysis of the impact of train drivers' behavior on electricity consumption, highlighting significant energy savings achievable through eco-driving practices. He performed a regression analysis on one year of data, successfully isolating the marginal impacts of train route, weight, and engine nominal power. Subsequently, he simulated the potential energy savings if all drivers adopted the behavior of the top decile.

In the second part of his internship, François applied insights from the research article "Data-driven predictive maintenance scheduling policies for railways" (https://doi.org/10.1016/j.trc.2019.07.020) to our operations. He worked with new datasets related to railway tracks, dedicating substantial time to debugging the data, identifying various issues, and highlighting quality deficiencies that we are still addressing. Despite the data quality challenges—which are common in data science—François's analyses enabled significant progress, and we are now poised to relaunch the project with greater maturity.

Throughout his internship, François demonstrated exceptional technical competencies, particularly in descriptive linear regression and statistical interpretation of results. He effectively communicated his findings to field experts, sparking valuable discussions. Above all, I value François's rigorous approach, driven by curiosity and a strong eagerness to learn.

I highly recommend François' application. Please feel free to contact me if you require any further information.

Best regards,

Denis Coutrot
Chief data and A(I)nalytics officer
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