

Yassine AMAGHOSS

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Human Resources Hiring Manager

Object: Applying for your permanent job offer Apprenticeship

Dear,

I recently graduated as a Data Scientist from the University of Paris (formerly Paris Descartes). Prior to that, I completed my engineering data science graduate studies at the National Institute of Statistics and Applied Economics of Rabat (INSEA Rabat). I am writing to express my keen interest in your permanent job offer.

Throughout this double curriculum at these two prestigious schools, I have acquired the skills that are prerequisites for this opportunity, such as statistics, optimization, and numerical analysis. I have also explored the field of machine learning and data analysis. Ergo, I quickly developed an interest in this new challenging domain, whose computational approach is deeply rooted in various mathematical branches.

During my academic and professional journey, I've taken on several pivotal roles and projects. During my apprenticeship at Natixis CIB, I collaborated with the DSI Global Markets team, focusing on prototyping, planning, design, and the implementation of Machine Learning-powered features that emphasize business process optimization. This included working on decision support for deal validation, confirmations, and payments, and diving deep into automation and anomaly detection for core banking. For instance, last year, at my end-of-studies internship at La Banque Centrale Populaire (BCP), I championed the development of an assistant system that facilitates the conversion of natural language to SQL (NL2SQL) using deep learning. This project stood out for its emphasis on data privacy, utilizing RoBERTa embeddings and integrating data-agnostic knowledge vectors with LSTM-based submodels for accurate SQL query predictions. Finally, I designed a time series model to analyze and predict material productivity for various wiring bases held by Boeing, employing the Ljung-Box test to ensure the model's adequacy and subsequently estimating associated losses.

My academics have always been my top priority, but I do engage in activities, which contribute positively to my personality. It has always been my endeavor to contribute to TEDx INSEA, devoted to organizing several conferences for ideas worth spreading. I also enjoy solving Kaggle-style study cases and learning new topics on platforms like "Coursera".

The most revolutionary aspect of data science and statistical learning that distinguishes it from other branches of mathematics is the fact that it analyzes outcomes instead of causes and attempts to find patterns of the different observations. This interdisciplinary nature is remarkably interesting to me because it will allow me to tackle any problem and will tremendously help me fulfill my goal to become a strategy consultant, with a strong focus on data science. This way, I can leverage my knowledge to implement my own innovative mathematical and Machine learning models that will contribute to scientific research in this field and tackle real-world problems effectively.

I passionately believe that this opportunity is in perfect resonance with my aspirations and targets. Thanks to its reputable and wide-ranging program, this offers me the chance to acquire the most cutting-edge techniques in reinforcement learning, massive data analysis, and advanced statistics, allowing me to keep abreast of the latest scientific breakthroughs.

Thank you for considering my application. I look forward to hearing from you.

Sincerely,

Yassine AMAGHOSS