Álvaro Martínez Petit
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I am a biomedical engineer with knowledge of bioinformatics who is passionate about programming and very interested in developing professionally on the area of data science applied to health-related problems.

Professional profile

I graduated in Biomedical Engineering from Universidad Politécnica de Madrid (UPM), specializing in Data Engineering and Digital Health. During my Bachelor, I had the opportunity to learn about topics as diverse as physiology of human body, programming techniques, medical imaging or data management. It was also at this time when I realized the importance of a good level of fluency in communication, reason that pushed me towards obtaining the Certificate in Advanced English, Council of Europe Level C1, by Cambridge Institute. In addition, I put interest in developing several transversal skills by involving myself in different activities such as Mentor Project, a group project on automated physical activity detection or a Cybersecurity Workshop. In those activities I acquired skills that include public speech and group management, group dynamics and practical machine learning knowledge, or problem solving and active communication, respectively.

I decided to enrol in the Master of Computational Biology of the UPM to further develop my understanding in programming and data science and complement my knowledge of human health with genomic and proteomic knowledge. After completing the first half of the course, I feel that I have improved my skills on areas as data visualization, machine learning techniques or management of public biological resources. I also further developed skills of audience speech and time management.

I describe myself as an enthusiastic person that gets deeply involved in every project that I have the chance to participate. I think that communication is a key aspect of any kind of relationship, either personal or work-related. I like everything related to storytelling, either audio-visual or written media, and I enjoy looking for solutions to new problems or finding a way to improve existing ones. I also enjoy sharing my knowledge with others, reason why I have been teaching private classes to young students for 3 years.

I am currently working on the Master's Thesis in a study that aims to find a relationship between COVID-19 and cognitive impairment, integrating immunological, cognitive and brain imaging data. In the process, I hope to carry even further my knowledge of machine learning algorithm application and interpretability, as well as their implications in health-related areas. I'd like to keep improving my understanding and abilities as a data scientist to provide some contributions in the field of human health.