

Dear DEVnet Holding recruitment,

I would like to inquire about the Junior Data Analyst position advertised on your website.

I am currently a doctoral candidate at the Ludwig Maximilian's University where I am finalising my PhD in Cognitive Neuroscience and Behavioural Psychology. I have a Masters in Neuro-Cognitive Psychology and a Bachelor in Psychology (both 1st Class Honours) and I have years of experience with research, data-science, and teaching. Throughout my doctorate, I have been tasked with designing and managing research projects from inception through to publication. This process requires the development of experimental models and semi-automated pipelines for data extraction, cleaning, transforming, and analysis – a process comparable to industry ETL practises. I have considerable experience with programming languages such as Python, R, and MATLAB, developing behavioural experiments using the packages PsychoPy and psychtoolbox and analysing data using Pandas, NumPy, and matplotlib and a large selection of R libraries. I have published my work in highly regarded scientific journals, including a detailed mixed effects linear model, with accompanying psychometric functions that I conducted in R for the Journal of Vision. I have experience running data-science research projects such as evaluating different data pre-processing normalisation techniques for fMRI (DARTEL vs CAT12), and running machine-learning (Support Vector Machine) dual cross-validation methods on large clinical imaging data-sets. And I am well-versed in data presentation/visualisation due to presenting at scientific conferences, and collaborating with academic peers on research projects.

I have undertaken many data-science roles throughout my academic career as both a student and a researcher. For my Master's thesis I worked with a large clinical team to wrangle, normalise, and perform advanced statistical analysis exploring structural biomarker correlates of Schizophrenia and preterm birth infants, this led to us publishing work in the Human Brain Mapping journal. I have also worked on pre-processing pipelines for EEG data extraction and analysis using EEGLab. Furthermore, I have worked with teams to prototype a bed-side point-of-care application for clinical studies, the results of which we published in the Journal of Neurology. Much of my work requires a deep understanding of intricate data pre-processing pipelines and the nuances of how to interpret statistical models. Importantly, due to having such a close proximity to my data, I have a keen eye for errors and outliers, meaning that I am particularly proficient and ensuring my data-quality is of the highest standard. I have experience using other tools such as Excel, SQL, C++, and Golang. I am currently improving my SQL skills in my spare time taking courses (DataCamp), as I am fully aware of how essential this skill is for industry professionals.

I am a punctual and hard-working person. I excel when given challenges and as a researcher, I thrive in learning new skills and enjoy pushing my boundaries when necessary. I hope that I have demonstrated that I am a suitable candidate for the position and I look forward to hearing from you soon.

Paul Fisher