Dear Search Committee,

My name is Junhwan Choi and I would like to apply a Data Science position at PepsiCo.

I am a data scientist at SparkCognition. I mostly work on building predictive machine learning model with time series data to predict future events. In general, I build the predictive machine learning models using Random Forest, Decision Tree Boosting, and Artificial Neural Network Methods such as Convolutional Neural Network, Recurrent Neural Network and Neuroevolution. The future events can also be predicted based on unsupervised approaches (anomaly detection) using one-class SVM, t-sne, and variational autoencoder. For these projects, I mainly rely on python ML libraries such as scipy, pandas, matplotlib, scikit-learn, Keras(Tensorflow/Theano), Pytorch to analyze data and build the models.  
  
Previously, I completed the Data Incubator which is highly competitive data science bootcamp. In the Data Incubator, I got trained in many practical data science tools such as SQL, Machine Learning, Hadoop, Apache Spark, and so on.   
  
I received Ph.D. in Astronomy and have completed a few postdoctoral positions. My research focuses on galaxy formation and evolution and astrophysical dynamics. I tried to answer what the fundamental principles are in astronomical phenomena and how these principles are applied to astronomical problems. In these works, I have significantly involved in the developing the astrophysical models and implementing large numerical simulations. These simulations open generate large data sets that require sophisticated big data analyses.

Please let me know if you have any questions regarding my application.

I look forward to speaking with you!

Best Regard

Junhwan Choi