Cover Letter

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I am writing this letter as a part of the application for European Corporate Division Management Trainee Program. With my previous academic experience, I am confident to deliver the most significant contribution to the given task. My expertise lies in the data analysis that to handling big data set and converting it into the simplest form of understanding by complying with statistical and econometric modelling on structure and unstructured data.

I am working as Business Intelligence Reporting intern in DHL Freight since February 2022. In DHL Freight I primarily work in Preparing, Optimizing Oracle dashboard KPI's and maintaining, bug fixing of offline excel reports. Managing four people team for smooth report release on weekly & monthly bases. Monitoring Oracle SQL master data quality and validating new tables and schema. Monitor sprint developments and bridging updates to senior level. Developing expected Volume forecasting optimization and visualization project using R Shiny. Previously, I worked as Supply Chain Forecasting Analyst in CHEP Deutschland company, were my task was on Supply Chain Forecasting project, under this project my task is to enhance the existing forecasting while using different forecasting techniques and technologies, my most of the time spend on playing with big data sets, cleaning it, processing it, so to be deploy in the statistical forecasting model. To enhance the forecasting, I have use statistical and machine learning techniques as a result, the actual forecast accuracy was increase to more than thirty percent in some of the product. I also developed external macro-economic indicators which assessed to understand the external economical behavior of customers and economy this is actively helping while assessing the forecast accuracy. For this particular project. I have used some popular forecasting techniques methods like SARIMA VAR, VECM model also FB Prophet and LSTM models to design the scenarios and select the best forecasting model. At present I am working on customer, product and quality level to find alternative way to enhance forecasting by developing sectoral and customer level forecasting. For the complete analysis I have used R (developed R shiny app), use Jupyter Notebook in some cases and Power BI tool while preparing result.

I have one and half years of professional working experience in leading economic think tanks of India, where, I worked on several projects broadly on, consumer behaviour, socio-economic development, monetary economics, agriculture economics and environment economics. Recently, I worked in Policy Modelling Association for Inclusive Development, New Delhi, evaluating Climate Smart Agriculture techniques for three states of India, funded by World Bank, my task was to build forecasting models, identifying the trends, data wrangling, web scrapping and providing all support to final report. I also worked with Institute Economic Growth, New Delhi on "Impact of COVID 19 pre and post" funded by Gothenburg University, as Research Analyst, my task was to maintain mass mortality survey database, reporting spread of infection rate, analysing impact on people income and finding different patterns from the data sets. I handled different projects and prepared policy reports, delivering reports on given deadline, designing research for policy level outcome, it has enhanced my analytical thinking along with future motivation over a period of time. Data-driven research is my passion, my deep interest lies in policy research and finding optimal strategies through various statistical packages, climate change, international finance, trade, monetary economics and public economics are other fields in which I prefer to work.

I intensively write **R, Python, MS SQL** codes depending on requirement, for R I have experience in using **tidyr, dplyr, rvest, shiny, plotly, knitr, mlr3, ggplot2, caret, plm, raster, car, dotwhisker, broom, reshape, tmap, tm, tseries, sp, tm_shape, tidyverse, wordcloud, RcolorBrewer, vars, ggpubr, cowplot, pca** libraries and for Python I have used **TensorFlow, NumPy, SciPy, Pandas, Matplotlib, Keras, SciKit-Learn, PyTor, beautifulsoup** libraries for different data sets and projects. For SQL I have knowledge of **data waggling**, **entity relationship model, SQL operators, working with SQL, Functions, Subqueries, SQL View and Stored Procedures,** along with good knowledge of different econometrics models to complying with study area requirements, for visualization I prefer to use **Power BI** and **Tableau**. I also have sound knowledge of **Stata, E Views** and **overleaf** statistical Software's along with license **GAMS** software. At present I am learning data warehousing techniques along with the deep learning techniques specifically neural networks and image processing.

If, I get the opportunity to work, I can assist to identify data sets required to develop prediction models for solving internal and external business problem, performing ETL, develop algorithms and predictive models to derive insights and business value from data, Identify and implement use cases which might help the organization business development, Operationalize, publish, and monitor successful models to shape business and data science strategy, To partner with other departments to solve problems and identify trends and opportunities to define and develop the program for metrics creation, data collection, modelling, and reporting the operational performance, To work cross-functionally to define problem statements, collect data, build analytical models and make recommendations, data visualising, preparing reports, designing research logistic in given deadline. I request you to kindly consider me for this role. Thank you so much for your valuable time.

Thanking You, Mohit Pandey