

To

The recruitment manager,

I am writing this letter to apply for full time Predictive Modeling Analyst or Data Scientist position.

I have started my career back in 2005 as a programmer/analyst in Cognizant Technology Solutions in the capacity of a data warehouse developer and I have used ETL tools like Informatica, Datastage and reporting tools like Business Object on the course of time to build large data warehouse and reporting system from scratch. Over the years gradually moved in Design and implementing statistical / predictive models and cutting edge algorithms utilizing diverse sources of data to predict demand using Python and SAS when I worked for healthcare and financial insurance companies from 2009. Some of those works include predicting product enrolment basing on customer background or predicting whether the customer can enroll in hospital in next cycle. However the quest to know more about data and use its hidden pattern to do better predictive analysis with the help of statistics in my masters I've learnt advanced techniques in machine learning class and also have learnt web, text and sentiment mining and several commercial application like creating recommender system and classifier in the class of data mining. Also I took natural language processing class to learn the technique of analyzing text data with help of parser and tagger. Also to complement my earlier work with hive I did certification on Hadoop technologies as well.

Specifically working in projects like creating sentiment analyzer using matlab, weka and R and creating multilabel crime forecaster or improving the classifier performance with better feature selection on high dimensional fMRI data as part of my master's thesis gave me more insight in the field of data mining. Also exciting projects like creating essay grader to judge grammatical errors using natural language processing techniques helped me to use NLP techniques in data mining and machine learning projects later. Also while doing summer internship with associate director Steve Brown I've extensively worked with data visualization tool tableau to generate some interesting map based and stacked bar report and I definitely enjoyed the experience.

Also at present as part of my work at Microsoft Mobile Oy I am doing some interesting time series prediction work, where the challenges are fitting the ARIMA model as per the nature of the data of the country and doing prediction with weekly and daily data to get the lowest RMSE. Also proper visualization is a key aspect of the job. I am using Revolution R (big data compliant version of general R) and Hadoop framework to generate this forecasts. Also I extensively use my SQL knowledge to fetch data from their huge cloud database.

So I believe my experience in data mining, machine learning, applying statistical technique, using big data and data visualization technique and domain knowledge of finance, insurance and healthcare make me a good candidate for this job. Please see my resume for additional information on my experience and I can be reached anytime via email at tanay.chowdhury@gmail.com or my cell phone, 818-975-0087. Thank you for your time and consideration. I'll look forward to speak with you about this employment opportunity.

Regards,

Tanay Chowdhury