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| |  |  | | --- | --- | | **SUBJECT NUMBER & NAME** | 36102 iLab1 | | **NAME OF STUDENT**  **(PRINT CLEARLY - SURNAME, FIRST NAME)** | LEUVA UJASHKUMAR | | **STUDENT ID NUMBER** | 12739975 | | **STUDENT EMAIL** | [Ujashkumar.leuva@student.uts.edu.au](mailto:Ujashkumar.leuva@student.uts.edu.au) | | **STUDENT CONTACT NUMBER** | 0470331919 | | **DUE DATE** | 12/08/18 | | **ASSESSMENT ITEM NUMBER/TITLE** | AT1- Project Design Journal  Part A : Learning Goals and Weekly Entries | | * I confirm that the work submitted conforms with the university’s guidelines on academic integrity.   *Refer to the UTS policy on ‘Advice to Students on Good Academic Practice’*: <http://www.gsu.uts.edu.au/policies/academicpractice.html>   * I am aware of the penalties for plagiarism. This assignment is my own work and I have not handed in this assignment (either part or completely) for assessment in another subject. * If this assignment is submitted after the due date I understand that it will incur a penalty for lateness unless I have previously had an extension of time approved and have attached the written confirmation of this extension.   Please provide details of extensions granted here if applicable \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Signature of Student:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **­­Date:** 12/08 /2018  If submitted electronically tick here to indicate you agree with the above | | | |

**Assignment Task 1**

**Project Design Journal**

**Introduction:**

Our Project is based on to develop stock earning driver model and predicting the stock market for next year from analyzing the data from last 10 to 20 years.

**Background and Project goals**

Our project is about to develop stock earning driver model for J.P. Morgan. Our primary project goal is to identify the key drivers of individual stocks earnings, such as Iron Ore prices and FXRates for FMG-AU, Oil prices, interest rates, consumer sentiment for QAN-AU, Oil+ Coal+ LNG+ wholesale energy prices + temperature + solar panel take-up rates for ORG-AU using Python and Google Cloud to predict the stock market for next year for J.P. Morgan.

**Status report and Design journal**

As our project is to predicting the stock market, our team is occupied in the collection of datasets and review the relationship between the data.

Our team has to collect the datasets from a different data source about the stock market as well as the foreign exchange rate from past 10 to 20 years, as well as create a grouping between those datasets. Our team also have to develop a draft of objectives, expected outcomes, and project delivery. Our team had already collected historical data about oil, mining, forex data as well top 200 organization by revenue in Australia. From next week, our team will started working on data cleaning and manipulation. Our team will follow CRISP-DM methodology for the implementation of this project.

In this Automated model to we have to identify and predict 12 month earnings of companies based on these ‘key drivers’, including logical explanations (perhaps with charts, NLG text etc).

**Key concept and Framework**

From the objectives and expected outcomes/ deliverables, our team is working on key concept and framework. Ourselves using Python for coding and visualization. Our team will engage with the client every week to review the progress as well as daily review with the client to quick catch-up through the mail.

**Data Privacy and legislation in context of stack holder**

As J.P. Morgan has strict confidentiality regarding datasets as this is traditional investment banking firm and J.P. Morgan have some privacy issue of data, ourselves have to work on our datasets from Bloomberg, Yahoo! Finance as well other investment firms.

**What Myself did in past week?**

Last week were essential for me to figuring out what we will be doing during the semester. We contacted Berowne from J.P. Morgan, and discuss about the project with some documents review as we (I and Gautham) both are not from finance background. This project is about sentiment analysis, cause and effect as well as prediction and applying machine learning hence our team was working on that.

**Learning prospective in last week**

Initially, myself found out that I do not know about this domain, statistical analysis as well as my project goals. However, after some communication with my academic mentor I am less terrified about this prospect. I also contacted to Gautham about this project to understand project goals related finance and investment banking.

I was a bit confused about academic prospective – to maintain as well learning opportunities as per the marking criteria and professional prospective – to maintain relationship and provide expected outcomes for the client. However, the academic prospective is manage by marking.

**Learning prospective for this project**

As I already experienced in Python along with data visualization libraries, Myself do not have to spend much more time on it. However, I hadn’t applied machine learning algorithms as well as myself is entirely new into sentiment analysis, hence before I started working on it, I should test the waters. In particular, Finance and banking domain is new for me. Thus myself have to understand in a much broader context as well as continue reading about the stock market.