MAP-i PhD Program

Adaptive Business Intelligence - ABI, 2011/12

Task 2 ABI Project Proposal

Group Members:

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Aim (what do you intend to do? business impact?):

Using Time Series analysis we intend to predict unemployment with considerable accuracy in Portugal. For this task the time sample used is monthly, from January 1983 to October 2011.

Optional: Comparing the unemployment tendency between Portugal and Euro area.

ABI Dataset(s) selected (give details about name, domain, source, main characteristics, etc...):

DataMarket, visualize the world's economy, societies, nature, and industries, with 100 million time series from UN, World Bank, Eurostat and other important data providers.

Short URL:

http://data.is/tYiRnb

Source: Eurostat

- Eurostat is a Directorate-General of the European Commission located in Luxembourg. Its main responsibilities are to provide the European Union with statistical information at European level and to promote the integration of statistical methods across the Member States of the European Union, candidate countries and EFTA countries.

ABI Computational Tool(s) selected (give details about name, source, characteristics, etc...):

Tool - R

Source - http://www.r-project.org/

Characteristics - R is a programming language and software environment for statistical computing and graphics. The R language is widely used among statisticians for developing statistical software, and R is widely used for statistical software development and data analysis.

Expected Results/Outcome (what do you believe you can achive with this Project?):

With this project we intend to correctly predict the unemployment rate in Portugal. This prediction can be used by the Portuguese Government and private companies in order to apply new economic policies and companies strategies. Can be used as a preventive measure to minimize the negative impact of the unemployment and to maximize the economic growth.