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## Certification of Research Assistantship

Date: February 8<sup>th</sup>, 2017

To whom it may concern,

This is to certify that Mr. Alireza Mohammadinodooshan has been cooperating with our research team as a resident and remote research assistant for three months. During this period, besides the preprocessing and feature selection tasks, he has mainly been investigating the effectiveness of some of the classification algorithms for the following two problems, using the related financial ratios:

- 1- Bankruptcy prediction of some of the Iranian companies, divided based on their industries.
- 2- Necessity of the auditor changes for some of the Iranian companies.

The investigated algorithms which include some of the classical approaches (e.g. svm and neural networks) and the ensemble ones (i.e. bagging and boosting methods) were compared in terms of their evaluation metrics (e.g. F-scores). The results have been used in our submitted and published papers in some of the Iranian journals focused on the accounting and management topics of the national companies (e.g. the "financial management strategies" journal and the "property management and financing" journal).

During our cooperation, I found Mr. Mohammadinodooshan a reliable research team member with a nice personality, and a strong programmer whose innovative solutions could help us to evaluate our hypotheses quickly.

Should you need further information, please feel free to contact me.

Yours sincerely,

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