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(c) Residency: Work permit

HR Department October 18, 2022

Dear Mr/Mrs,

Through this letter, I would like to introduce myself and express my interest for the opening position at your company.

I have a Ph.D. in Applied Economics and Management (AEM) at the University of Bergamo. During my research, I have gained solid practical experience in data manipulation, analysis, visualization, mapping, implementing machine learning (both supervised & unsupervised) algorithms, and building interactive user-faces. In addition, I have theoretical background to do web scraping, text-mining, and network analysis. Thus, I am keen to continue my career in the business sector, under the relevant topics.

I have enclosed my resume and I look forward to hearing from you for an interview opportunity in the near future. For further information, please do not hesitate to contact me, preferably via email.

Sincerely,

Seyma Kalay

Attached: curriculum vitæ

Seyma Kalay

Curriculum Vitae

Education

2017 - 2022 Doctor of Philosophy in Applied Economics and Management,

Department of Economics and Management, University of Bergamo (Italy).

2013 - 2016 Master of Science in Finance,

Department of Economics and Statistics, University of Siena (Italy).

2011 - 2012 Certificate in Masters of Business Administration Program,

College of Business, University of Auburn (USA).

2006 - 2010 Bachelor of Science in Astronomy and Space Science,

Department of Science, University of Istanbul (Turkey).

Doctoral Dissertation

Title Access to Credit, Using Machine Learning Techniques.

Description Implementing data manipulations, applying machine learning algorithms, and creating interactive user faces.

Master Thesis

Title Optimal Portfolio Weights Using Markowitz Portfolio Theory.

Description Finding the optimal stock portfolio weights, using both covariance and shrinkage covariance matrix.

Experiences

2017 - 2022 Researcher - Statistics,

Department of Economics and Management, University of Bergamo (Italy),

Implementing data manipulations, applying machine learning technique, and creating interactive user faces (please see the GitHub repositories at \bigcirc).

2016 Internship - Portfolio,

Ziraat Portfolio, Istanbul (Turkey),

Observed equity and bond market, familiar with behavioral finance, created a statistical model to maximize the portfolio's return and proved the model efficiency by tracking the data.

2015 Internship - Portfolio,

Invest-AZ, Istanbul (Turkey),

To analyze the companies by looking at their income statements and balance sheets to make sure it is beneficial to invest in those companies.

2012 Internship - Accounted,

Varkan Group, Istanbul (Turkey),

Have been effectively responsible for recording accounting cycle and kept tracking consistent balances on both suppliers and purchasers on the company's system.

2007–2010 Part time - Real Estate,

Emlak Ada, Istanbul (Turkey),

Was actively involved in the marketing and communications of the firm. Drafted contracts, scheduled meetings, handled negotiations, updated company website, collaborated with other real estate agencies, generated new solutions, and conducted research on customer needs and preferences.

Skills and Competencies

Languages: O Native in Turkish O Advance in English O Intermediate in Italian O Beginner in Spanish

Computer: Competitive in: OR OShiny Application OLatex OMicrosoft Office

 $\textit{New in:} \circ \mathsf{Html} \circ \mathsf{Python} \circ \mathsf{SQL} \circ \mathsf{Java} \ \underline{\textit{Novice in:}} \circ \mathsf{Tableau} \circ \mathsf{Power} \ \mathsf{BI}$

Soft Skills: • Time Management • Problem Solving • Reporting Skills • Multitasking

Projects

UI O MappApp: Conducting an empirical study using both supervised and unsupervised machine learning Interfaces algorithms.

- o Biblio: Reproducible bibliometric literature review.
- Tp3: Conducting unsupervised machine learning algorithms (Tp3: runs from console).

Viz • Tableau: Conducting data visualization using Tableau Destop.

- **Software** Pomodoro: Comparison of predictive power. This package is intended to make modeling and comparing Packages the predictive powers easier based on the data-splits and all data set.
 - Pepe: Is intended to make descriptive statistics easier.
 - Oregano: Is intended to create Shiny Modules to make the visualization easier, expected release late 2023.

GitHub • Repositories: Current Github repositories.

- Publications CRAN Pomodoro: Predictive Power of Linear and Tree Modeling.
 - CRAN Pepe: Data Manipulation.

Awards and Honors

2017-2022 UNIBG PhD Fund,

2013-2016 DSU - Toscana,

2007–2010 Turkish Gas Foundation Scholarship,

2007–2010 Turkish Women Community Scholarship,

2006–2010 Yapi Kredi Bank Scholarship.

References

Reference letters will be provided upon request.