Dr Hakan Emekci
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EDUCATION
2019 - 2020   London Business School
Master's in Finance
GRE Quantitative: 170/170
2012 - 2017   Hacettepe University, Ankara, Turkey
PhD in Economics, GPA 3.4/4
Thesis: Computational Analysis of CBRT's Statements and Quantifying the Effects on Financial Markets
2006 - 2011   Middle East Technical University, Ankara, Turkey
BSc Computer Engineering
Project: Financial Transaction Management Simulation System
Exchange: Universität Des Saarlandes, Saarbrucken, Germany
Informatics

BUSINESS EXPERIENCE
2020 - 2021   Computational Social Science Lab, Istanbul, Turkey
KOC University – MA-CSSL
Senior Research Associate – Machine Learning and Natural Language Processing Unit
- Senior researcher at the project "*IMF Decides, Machine Learns an AI approach*" financed by TUBITAK and European Union
- Created a Natural Language Processing (NLP) tool for automated, fast analysis of the IMF's Executive Board meeting minutes, which can capture elements including individual board member sentiments
- Created an ML model to specify "Determinants of IMF Lending" from IMF Minutes
- Coded multi-purpose web-scrapper to collect all related textual data directly from the IMF Website
- Created a Turkish offensive language detection model for Syrian refugees using Deep Learning, Bert and PyTorch and published as an open-source project to AI Community

2011 - 2021   TURKISH TREASURY, Ankara, Turkey
Government Ministry Office
Senior Treasury Associate - Macro-Economic Modelling Department
- Prepared Medium Term Economic Plans of Turkey for periods 2012-2015 with Treasury Team, negotiated macroeconomic framework and plans with IMF Article IV country assessment staff yearly
- Composed analytical macroeconomic reports and forecasted main macroeconomic indicators via R such as inflation, growth, industrial production rate
- Published paper "Macro-Economic Nowcasting with Google Trends" and Coded R Script to forecast short-term indicators from internet search data. Nowcasting Accuracy on average is increased by 55%
- Prepared research papers and Econometric Analysis Report on Current Account Deficit of Turkey
- Presented monthly forecasts and analyses to Undersecretary and high-level economic representatives, coordinated speech writing, and briefing of the Undersecretary before the events
- Represented Turkey in G-20 topics of Financial Inclusion, Data, Digital Financial Services.
- Wrote my PhD Thesis by implementing natural language processing algorithms on Central Bank's policy statements. Implemented R and C++ codes for web scraping and natural language processing

2012 - 2014   LAB INC, Ankara, Turkey
Data Mining Start-up Company - Acquired by COMODO
Co-Founder
- Created and co-managed a small team for a new product on Log Management System which can collect all log sources, provide real-time monitoring, real-time searching, and clustering
- Defined timelines, project plans, analyses and estimated feasibility, cost, time and compatibility with hardware and other programs
- Accomplished explosive growth, reached 300K £ sales
- Managed all dealing/acquiring process

ADDITIONAL INFORMATION
- Fluent in English, Native in Turkish
- Proficient in R, Python, JAVA, C, C++, LaTeX, Markdown, Eviews, Stata, Matlab
- Co-author of book "**Data Analysis with R**" written in Turkish, Seckin Publishing - 2018 Ankara
- Gave "**Data Mining with R**" lectures to Auditors in Ankara Social Sciences University
- Contributor to AI open source community with **NLP Projects** on https://huggingface.co/hemekci