DERYA "IPEK" EROGLU

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OBJECTIVE

I am a Ph.D. candidate at Business Information Technology department, and I am interested in full-time positions where I can leverage my data analytics and research skills to solve business problems and make an impact.

COMPUTER SKILLS

Programming	**Package Software and Platforms**
Python (Advanced), MATLAB, Java, C#, Visual Basic, VBA, C#, R, MsSQL, C, GAMS, Cplex, HTML, CSS, Javascript	Qualtrics, Amazon Mechanical Turk, WordPress, Minitab, SAS JMP, IBM Cplex OPL, ARENA Simulation Software, Yasai, XLMiner, MS Office

WORK EXPERIENCE

Graduate Research Assistant, August 2018 – Present
Business Information Technology, Pamplin School of Business, Virginia Tech, Blacksburg, VA

- Conducted several research projects on the analysis of large-scale social media data and pipeline development using Machine Learning, Deep Learning on Python and R
- Performed qualitative analysis of social media data which is led by the established social science theories
- Taught and assisted a wide range of courses that requires high familiarity with the following topics:
    - Data Analytics – Machine Learning, Statistical Methods, Forecasting, Text Mining, Management Information Systems, Data and Ethics, Cybersecurity Analytics
    - Computation and Programming – Programming with MATLAB, Visual Basic, Visual Basic for Applications (VBA), R
    - Operations Research – Linear Programming, Integer Programming
- Volunteered at Statistical Applications and Innovations Group (SAIG) in the Statistics Department, which aims to guide students from any Virginia Tech undergraduate and graduate program on their data collection, analysis, and method interpretation. The primary focus of the projects I was assigned was multivariate methods and machine learning

Graduate Research Assistant, August 2015 – August 2018
Industrial Engineering, Middle East Technical University (METU), Ankara, Turkey

- Conducted a research project on clustering on networks (graphs), which entailed studying the theoretical properties of the problem under different objective (evaluation) functions
- Developed a hybrid solution approach based on Genetic Algorithm and local search using MATLAB
- Taught and assisted a wide range of courses that requires high familiarity with the following topics: Linear Programming, Integer Programming, Management Science and Multi-Criteria

Decision Making, Project Management, Production Planning, Inventory Planning, Work Systems Analysis and Design

Project Member, October 2015 – April 2018
Aselsan, Ankara, Turkey
- Worked at a project contracted by the govenment
- Developed a recommendation algorithm and interface to aid decision making of logistics operations

SAP WM Business Analyst, June 2015 – August 2015
Information Technologies, Enerjisa, Ankara, Turkey
- Worked at a long-term project which was aiming unbundling power generation and distribution divisions of the company
- Worked in Work Management module on improvement of work processes specific to utility industry

Part-time Software Developer, March 2015 – June 2015
Information Technologies, Deloitte Consulting, Ankara, Turkey
- Worked on IT projects to fulfill IT-related demands of the existing clients
- Developed a billing application using C# and ASP.NET for Deloitte's internal needs

Internships
- **Digital Banking**, Turkiye Is Bankasi, Istanbul, Turkey
- **Information Technologies**, Enerjisa, Turkey
- **Manufacturing**, Oyak Renault Automobile Factory, Bursa, Turkey
- **Lean Management**, Karsan Automotive, Bursa, Turkey

EDUCATION

Ph.D. in Business Information Technology, Expected May 2023
Virginia Polytechnic Institute & State University (Virginia Tech), Blacksburg, VA

M.S. in Industrial Engineering, January 2019
Middle East Technical University (METU), Ankara, Turkey

B.S. in Industrial Engineering, *magna cum laude*, June 2015
Middle East Technical University (METU), Ankara, Turkey

AWARDS & ACTIVITIES

President, TSA at VT (Turkish Student Association at Virginia Tech), June 2021 – Present
Outstanding Reviewer Award, 30th European Conference on Information Systems (ECIS), August 2022
Data Analyst, Two NSF Projects in 2021
Social and Behavioral Research Certificate, CITI, Virginia Tech, May 2021
Summer Research Grant, Business Information Technology, Virginia Tech, May – August 2019, 2020, 2021, and 2022
2015-2016 Academic Year Graduate Student of the Year, METU, 2017