

CONTACT INFORMATION

Name, Surname İlknur Dönmez
Address Atakent Mah. 213. Sok. Güneşpark Evleri-2
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PERSONAL INFORMATION

Date and Place of Birth 05/01/1979, Uşak
Marital Status Married
Nationality Turkish
Driving License B, A2

OBJECTIVE

To apply my solid industrial experience and strong academic background in Machine Learning, Data Mining, Big Data, Natural Language Processing and Project Management to research, design and implementation of data-centric, state-of-the-art software solutions in an organization led by a growth mindset.

EDUCATION

2011 – 2016 **Doctor of Philosophy (Ph.D.)** in Computer Engineering
İstanbul Technical University – İstanbul
Thesis: “*Semantic and Grammatical Analysis of Sentence with Coarse-grained Semantic Matrix Representation*” (Advisor: Prof. Dr. Eşref Adalı)

2002 – 2006 **Master of Science (M.Sc.)** in Mathematics
Ege University – İzmir
Thesis: “*A Measure of Graph Vulnerability: The Integrity of Double Vertex Graph of Binomial Trees*”

1996 – 2001 **Bachelor of Science (B.Sc.)** in Electronics and Telecommunication Engineering
İstanbul Technical University – İstanbul

WORK EXPERIENCE

09/2016 – **Lecturer** - Bilgi University, Computer Engineering Department
Teachings: *Numeric Analyses for Engineering with Python; User Interface Design with Java; Software Engineering Concepts; Computer Architecture*

09/2014 – 08/2016 **Researcher – Data Scientist** – İstanbul Technical University
State Planning Organization (DPT) – İstanbul
English- Turkish Machine Translation Project (Funded by DPT)
Based on statistical models on Natural Language Processing

06/2007 – 01/2012

Project Manager – Information Technologies

Petrol Ofisi Headquarters – İstanbul

Aviation Automation Project – Project Manager

Automation of data transfer between each fuel truck, operation center and head office about positions of the planes, amount of fuel and the ticketing process.

Positive Card Project – Project Manager

Specification and implementation of a customer loyalty project that customers purchasing fuel at OMV Petrol Ofisi filling stations can make payments without getting out of their cars with the opportunity to win bonus points to be eligible for free fuel awards.

04/2002 – 06/2007

Senior Software Design Engineer and Project Leader – R&D

Vestek/Vestel Elektronik - İstanbul

Embedded Software Development and Project Management

PROFESSIONAL SKILLS

Data Science & Machine Learning : Classification, Regression, Clustering, Feature Engineering (Price estimation, keyword extraction ,recommendation system), Data Mining, Data Visualization

Statistical Methods: Time Series, Regression Models, Hypothesis Testing and Confidence Intervals, Principal Component Analysis and Dimensionality Reduction, Stochastic Differential Equations (SDEs)

Natural Language Processing: Machine Translation, Sentiment Analysis, Semantic Text Understanding

Coding: Python (scikit-learn, scikitbio, numpy, scipy, pandas), R, C/C#/Java, SQL, LaTeX

Databases & Servers: Maintaining a MS SQL Server, SQL DBA

PUBLICATIONS

İlknur Dönmez, and Elena Battini Sönmez. 2018, June. **“Feeling Analysis for Sadness and Happiness using Google n-gram Database”** (Accepted for IEEE, 2018 International Conference on Computer Science and Engineering)

İlknur Dönmez, and Eşref Adalı. 2018, June. **“Contex Free Grammer For Turkish”** Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi. (On publication stage)

İlknur Dönmez 2018, January. **“Human Activity Analysis and Prediction Using Google n-Grams.”** International Journal of Future Computer and Communication. 2018 Vol.7(2): 32-36 ISSN: 2010-3751 DOI: 10.18178/ijfcc.2018.7.2.516

İlknur Dönmez, and Eşref Adalı. 2017, September. **“Turkish Question Answering Application with Course-Grained Semantic Matrix Representation of Sentences.”** UBМК 2017 International Conference on Computer Science & Engineering. IEEE, 2017. p. 6-11. (DOI: 10.1109/UBМК.2017.8093464)

İlknur Dönmez, and Eşref Adalı. 2016, October. **“Turkish Context Free Grammar Rules with Case Suffix and Phrase Relation.”** UBМК 2016 International Conference on Computer Science & Engineering. Türkiye Bilişim Vakfı Bilgisayar Bilimleri ve Mühendisliği Dergisi 10 (): 33-40 ISN-1305-8991

İlknur Dönmez, and Eşref Adalı. 2016, April. **“Turkish Document Classification with Coarse-grained Semantic Matrix.”** International Conference on Intelligent Text Processing and Computational Linguistics (pp. 472-484). Springer, Cham. Lecture Notes in Computer Science. ISSN 0302-9743 ISBN 978-3-319-75476-5

İlknur Dönmez, and Eşref Adalı. 2015, December. **“Türkçe Tümce Çözümlemede Vektör Yaklaşımı.”** 2015, AKU Journal of Science and Engineering. 15 035101 (1-11) DOI: 10.5578/fmbd.10354

İlknur Dönmez, and Eşref Adalı. 2015, October. *“Extracting Phrase-content Pairs for Turkish Sentences.”* Application of Information and Communication Technologies (AICT), 2015 9th International Conference on (pp. 128-132). IEEE. DOI: 10.1109/ICAICT.2015.7338531

İlknur Büyükkuşcu and Alpay Kırlangıç. 2007. *“The Integrity of Double Vertex Graph of Binomial Trees”*, International Journal of Pure and Applied Mathematics, Vol- 36, No 2, 2007, 259-268

İlknur Büyükkuşcu and Eşref Adalı. 2006. *“Heceleme Yöntemiyle Kök Sözcük Üretme”*. Türkiye Bilişim Vakfı Bilgisayar Bilimleri ve Mühendisliği Dergisi, 2.1.

TRAININGS & CERTIFICATES

| | |
|------------|---|
| 29/09/2010 | Certificate of Appreciation, <i>Project Management of Aviation e-Ticketing Project</i> , Petrol Ofisi A.Ş. |
| 16/12/2009 | Oracle Database 10g Training: <i>Basic concepts of Database administration</i> |
| 23/11/2009 | Oracle Database PL-SQL Training, <i>Programming with PL/SQL</i> , Oracle |
| 12/10/2009 | Oracle Database SQL Training, <i>SQL Fundamentals II</i> , Oracle |
| 10/08/2009 | <i>Data Integrator Training, Administration & Development of Data Integrator</i> |
| 25/02/2008 | <i>MS SQL Training, Maintaining a MS SQL Server 2005 Database</i> , Koç System Information & Communication Services |
| 15/04/2008 | <i>Project Management Certification Program, project management training</i> , Mentor Project Management Training & Consultancy |
| 01/01/2008 | <i>Web Application Technologies, Core Web Application Technologies with Visual Studio 2005</i> , Ceyhun Yılmaz / Bilginç IT Academy |
| 19/05/2003 | <i>CTV100 Software Training</i> , ST Microelectronic |

PERSONAL DEVELOPMENT CERTIFICATES

| | |
|------------|--|
| 01/10/2009 | Negotiation Techniques, Solution Consultancy & Training International |
| 11/09/2007 | Advanced Presentation Techniques, TMI Consultancy |
| 08/12/2006 | Stress Management, Aina Consultancy |
| 08/02/2005 | Financial Analysis & Financial Decision Taking, Ceyhun Şahin |
| 05/01/2005 | Finance for the people who are not financier, Ceyhun Şahin |
| 04/06/2004 | Creative Problem Solving & Decision Making Techniques, Mehmet Kocabaş Training & Consultancy |
| 01/03/2003 | ISO Quality Management System, Vestel |
| 21/12/2002 | Quality Awareness - Team Working & Communication, Çözüm Management & Economy Consultancy |

LANGUAGE SKILLS

Turkish (Native), English (Fluent)

CLUB & ASSOCIATION MEMBERSHIPS

ITU NLP Research Group Member

REFERENCES

- Eřref Adalı** İstanbul Technical University – Prof. Dr.
- Metin Salt** Vestek Elektronik R&D – General Manager
- Sedat Ölçer** Bilgi Üniversity –Prof Dr.