Ozancan Ozdemir

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EDUCATION

Doctor of Philosophy in Statistics, GPA: 3.94　　　　　　　　October 2020-Present
Middle East Technical University

Master of Science in Statistics, Valedictorian, GPA: 4.00　　September 2017- August 2020
Middle East Technical University
Thesis Title: Performance Comparison of Machine Learning Methods and Traditional Time Series Methods for forecasting,Under the supervision of Yozgatlıgil C.

Bachelor of Science in Statistics, Valedictorian, GPA: 3.74　　September 2012- June 2017
Middle East Technical University

EXPERIENCE

Co-founder　　　　　　　　　　　　　　　　　　　　　　　April 2020-Present
VeriPie
Founded one of the first data journal that shares a statistical article about topical issues in Turkey.

Research and Teaching Assistant　　　　　　　　　　　　　November 2017-Present
Middle East Technical University　　　　　　　　　　　　　*Department of Statistics*
Given several lectures including Statistical Computing, Stochastic Processes, Mathematical Statistics, Probability, Multivariate Statistical Analysis, Statistical Data Analysis and Applied Time Series.

Student Assistant　　　　　　　　　　　　　　　　　　　October 2016-May 2017
Middle East Technical University　　　　　　　　　　　　　*Department of Statistics*
Grading homeworks and quizzes of some bachelor courses in the Department of Statistics at METU.

Summer Intern　　　　　　　　　　　　　　　　　　　　July 2016 - a month
Central Bank of Turkey　　　　　　　　　*Department of Banking and Financial Institution*

Summer Intern　　　　　　　　　　　　　　　　　　　　June 2016 - a month
Ministry of Treasury and Finance　　　　*Department of Insurance and Actuarial Science*

SKILLS

R, R Shiny, Python, Pytorch, scikit-learn,TensorFlow, SQL, SPSS, MATLAB, SAS, Minitab, Tableau, Flourish, HTML, Latex, Adobe Photoshop, Time Series Analysis and Forecasting, Statistical Modelling, Machine Learning Applications, Deep Learning Applications, COVID-19 Data Analysis, Biostatistics, Data Visualization, Developing R and Python Applications, Data-Based Policy Development.

PROJECTS

- **Development of a Hand Robotic Mirror Therapy System Based on Motor Learning**: (Work in progress) In this project, we propose a robotic hand rehabilitation system for hemiplegia patients based on fine grip movement. Tech: Python, Pytorch

- **Medium Term Wind Power Forecasting Using Deep Learning**: In this study, medium term wind power predictions are performed by using Gated Recurrent Unit(GRU), Long Short Term Memory with attention, a hybrid Convolutional Neural Network and Long Short Term Memory architecture and Autoregressive Convolutional Recurrent Neural Network on the real life hourly production data set of a power plant operator to outperform the company's model. company. Tech: Python, Pytorch(January'22)

- **House Price Prediction Using Machine Learning: A Case in Iowa**: In this project, we aim to developan accurate regression model using tree-based algorithms andexplain the type of information which has an impact on the houseprice. Tech: Python, sklearn (January'22)

- **Evaluation of Reading Skills in the Context of Gender: An Analysis with PISA 2018 Data**: Examining the reading proficiency of girls and boys in Turkey by analyzing data from the International Student Program (PISA) 2018. Tech: SPSS, R Studio. (July '21)

- **Visualization of Turkey Provinces**: Contribution a project in Ozyegin University by drawing Turkey Map in R Tech: R Studio (April'21)

PUBLICATIONS

- **Paper in refereed journals**: Orak, N.H., Ozdemir, O., The impacts of COVID-19 lockdown on PM10 and SO2 concentrations and association with human mobility across Turkey, Environmental Research,https://doi.org/10.1016/j.envres.2021.111018.

- **Paper in refereed journals**: Mustafa Cavus, Olgun Aydin, Ozan Evkaya, Ozancan Ozdemir, Deniz Bezer, Ugur Dar. Conference Report of Why R? Turkey 2021. The R Journal, 13(1):648-653, June 2021.

- **Abstract in conference proceedings**: Ozdemir O., Yozgatlıgil C. (2019) *"Performance Comparison of Machine Learning Methodsand Time Series Methods for Forecasting"* 5th International Researchers, Statisticians and Young Statisticians Congress, Aydin, Turkey, 18 - 20 October 2019, page.1.

- **Abstract in conference proceedings**: Ozdemir O. , Yozgatlıgil C. (2019) *"Prediction of Earthquake Magnitude and Direction in Kutahya and Mugla using Machine Learning Methods"* 4. National Insurance and Actuary Congress,Ankara, Turkey, 24 - 25 June 2019, cover.1, number.1, page.81-82.
- **An Analysis Report**: Cin M., Ilhan A., Ozdemir O, Duskun Y., Korlu O. (2022) "Evaluation of Reading Skills in the Context of Gender: An Analysis with PISA 2018 Data", https://doi.org/10.13140/RG.2.2.26165.35044

HONORS AND AWARDS

- Certificate for being the most successful student among master students started in 2017 Department of Statistics, METU - September, 2019
- "4. National Insurance and Actuary Congress Poster Competition Winner",Turkey - June, 2019
- Certificate for being the first among all bachelor students graduated from Department of Statistics, METU- July 2017
- Dean's High Honor List, METU (Both Fall and Spring semesters)- 2013-2017

INVITED TALKS

- **Introduction to Tree-Based Algorithms in R** February 2022
  TUMDER - Turkstat Member Association *Ankara, Turkey*

VOLUNTEER EXPERIENCE

- **Event Organizer at WhyR? Turkey 2021 Pre-Meeting, Turkey**: Organized the biggest online R event in Turkey by seminars being about the usage of R in different fields and delivered them reaching over 2000 participants.-April 2021
- **Member of Organizing Committee at WhyR? Turkey 2022, Turkey**: Organized the first scientific conference specified for R in Turkey.-April 2022

LANGUAGE & INTERESTS

- **Languages**: Turkish(Native),English(Fluent),German(Beginner),Spanish(Beginner)
- **Interests**: Photography, Urbanism, History, Politics, Football, Movies, Books

REFERENCES

- **Prof. Dr. Ozlem ILK DAG**: Department of Statistics, Middle East Technical University, TURKEY,
  E-mail: oilk@metu.edu.tr, **Phone:** +90 (312) 210-5326
- **Assoc. Prof. Ceylan YOZGATLIGIL**: Department of Statistics, Middle East Technical University, TURKEY,
  E-mail: ceylan@metu.edu.tr, **Phone:** +90 (312) 210-2963