



Muhammed BILGIN

CONTACT

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EXPERIENCE

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| DEC 2019 - NOW | ALBAYRAK HOLDING, İstanbul <i>Senior Machine Learning Engineer</i> We are responsible for analyzing, modeling and developing internal data projects. |
| APR 2018 - OCT 2019 | TALENTBU, İstanbul <i>Founder</i> Code challenge, job search and online interview system using NLP, NLU and Artificial Neural Network. Realization of the interview system and job suggestion system used and managed by artificial intelligence. |
| JUN 2017 - APR 2018 | DGR PROJECT, İstanbul <i>Research Director</i> We worked on wearable technology for the visually impaired using artificial intelligence. In addition, I managed the embedded systems and Tubitak projects for IoT projects. |

FREELANCE EXPERIENCE

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| LEAD SHIP. COMP. | MULTIPLE ROUTING AND OPTIMIZATION PROJECT <i>Project Manager and Senior ML Engineer</i> For one of Turkey's largest shipping companies, shipping information based intelligent Multiple routing and optimization of cargo using techniques faster and using less fuel to provide distributions, we performed the renovation project. |
| CONF. COMP. INFO. | DYNAMIC PRICING AND RECOMMENDATION ENGINE <i>Project Manager and Senior ML Engineer</i> With my 6-person team, we have developed a dynamic pricing project and a recommendation system for an airline ticket that is possible to buy an airline by following the behavior of the users. |
| CONF. COMP. INFO. | KNOWLEDGE EXTRACTION <i>Project Manager and Senior ML Engineer</i> With my 6-person team, Turkey's largest enterprises and enterprises in brand value works out to work for one of the human perception. This work was done entirely using Machine learning. |

EDUCATION

- DEC 2021* MSc. Computer and Information Science
Dogus University, Istanbul
Thesis Subject: "Label Prediction for Open Domain Question Answering System"
Supervisor: Dr. Aysun DOGRUSOZ (Computer Engineering)
- JUN 2022* MSc. Engineering Management
Galatasaray University, Istanbul
- FEB 2021 MBA
Istanbul University, Istanbul
- JUN 2017 BSc. COMPUTER ENGINEERING
Istanbul Arel University, Istanbul
Thesis Subject: "Remote Fuzzy controlled 6 axis Robot arm design and programming"
Supervisor: Prof. Dr. Osman YILDIRIM (Electric-Electronic Engineering)

AWARDS AND COMPETITIONS

- ITU/ROBOTIC LAB 2016-2017 Flexible and sensitive robot leg
TEXAS/ABD 2016-2017 Model Satellite Competition Team Captain @CanSaT NASA
RUSSIA 2019 Computational Linguistics Calculation Optimization. 3rd. /1300 Teams @Yandex

SCHOLARSHIPS AND CERTIFICATES

- TUBITAK - Cryptography applications - 2017 ANKARA/Turkey
- Hacettepe University and Science Academy - Artificial Intelligence Summer School 2017 ANKARA/Turkiye
- Bogazici University TETAM Research Center - Deep Learning and Application Scenarios

ILGILER

NLP, NLU, Cognitive Models, Bayesian Statistics, Machine Learning Model Achievements, Computational Linguistics and Cognitive Science

RESEARCH GROUPS AND SOCIETIES

- Istanbul University - Computational Intelligence and Machine Learning (CIML) Research Lab
- Data Istanbul

TEACHING EXPERIENCE

- SPRING SEMESTER 2015-2016 System Analysis and Design
AUTUMN SEMESTER 2016-2017 C Programming Languages
PLAYLAB 2016-2017 Drone and UAV
PLAYLAB 2016-2017 Autonomous Systems

SKILLS

Programming Languages

- Python, Qt Framework, Julia, LISP (Mid)

Tools

- MATLAB, Octave

Libs

- NLTK, spaCy, scikit-learn, Tensorflow, PyTorch, pandas, matplotlib

Management Tools

- Jira

FOREIGN LANGUAGES

TURKISH: Native
 ENGLISH: Intermediate
 FRENCH: Intermediate

PARTICIPANTS

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| ISTANBUL/TURKEY 2014-2016 | Science and Philosophy Association |
| SIRINCE/IZMIR 2016 | Mathematical Foundations of Artificial Intelligence - Math Village |
| CANKAYA/ANKARA 2017 | Artificial Intelligence Summer School |
| KANDILLI/ISTANBUL 2017 | Data Science Summer School |

RESEARCH AND VOLUNTARY PROJECTS

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| MAY-2016 | USING ARTIFICIAL INTELLIGENCE IN COMPUTER GAMES The project of the character in the computer game to learn the game and to try to escape from the opponent by drawing a new route. |
| APR-2017 | TARGET TRACKING SYSTEM WITH MACHINE LEARNING Predicting the next step of the target by following the route of a target using Monte Carlo, Markov and Bayes methods. |
| MAY-2018 | JOB POSTING ELIGIBILITY REVIEW WITH ARTIFICIAL INTELLIGENCE Scoring and ranking the applicants with Artificial Intelligence by pre-examining the job postings. |
| OCT-2018 | CV PARSER VIA NEURAL NETWORK AND NATURAL LANGUAGE PROCESSING The project of finding the most suitable person for the criteria determined by converting the Cv format, regardless of a specific format or language. |
| JAN-2019 - JUN-2020 | ONLINE CODE INTERVIEW WITH ARTIFICIAL INTELLIGENCE Using NLP, NLU and Artificial neural networks, a project asking a candidate a code question by Artificial Intelligence and scoring the answer received by Artificial Intelligence and determining the level of the candidate. |
| AUGS-2020 - NOW | AD RECOMMENDATION SYSTEM A project of developing an advertisement recommendation system, optimizing and modeling the data and conducting qualified research with the data obtained from the users within the scope of the research project of a university. |

PUBLICATIONS

- M. Bilgin, Robot Localization with Monte Carlo Method, Istanbul Arel University EBBT Konferansi, 2017., IEEE
- M. Bilgin, Unmanned Aerial Vehicle Stabilization with Machine Learning Kalman Filter, Istanbul Arel University EBBT Konferansi, 2017., IEEE
- M. Bilgin, Cv Parser via Neural Network and NLU, AI & ML Summit, Sydney, Australia 2018., IEEE

PREPRINT

- Machine Translation with Perception Neural Models
- Tensor to Monte Carlo for Semi Supervised Learning
- Tag Prediction for Open Domain Question Answering System
- Mathematical Foundations of Machine Learning (Book)

TALKS

- Istanbul Arel University (Istanbul), Statistical Perspective on Machine Learning, Istanbul, Turkey, March 8, 2017.
- Istanbul University (Istanbul), Machine Learning, Istanbul, Turkey, May 27, 2017.
- Istanbul University (Istanbul), Deep Learning, Istanbul, Turkey, October 30, 2018.
- Istanbul University (Istanbul), Start to End Machine Learning, Istanbul, Turkey, May 10, 2021

INTERESTS

Hiking and Climbing, Behavioral Sciences

MEMBERSHIPS

Turkish Mathematics Association
Turkish Education Foundation - TEV
Foundation for Children with Leukemia - LOSEV