

# Muhammed Yusuf Kocyigit

PHD, COMPUTER SCIENCE, BOSTON UNIVERSITY

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## Education

### Boston University

Boston, MA/USA

PHD IN COMPUTER SCIENCE / ADVISOR: PROF. DERRY WIJAYA, GPA: 4.0

2020 - Present

- Research in cross lingual representation learning, machine translation evaluation and bias detection
- Coursework include: Towards Universal NLP, Graduate Networks, Programming Languages, Random Computing

### Bogazici University

Istanbul, TR

MS & BS IN ELECTRICAL AND ELECTRONICS ENGINEERING , MS GPA: 3.75 & BS GPA: 3.0

2012 - 2017 - 2020

- Research in Machine translation evaluation, Senior project: Handwritten text generation using conditional GANs
- Related Coursework: Graduate Deep Learning(AA), Advanced Speech Processing(AA), Machine Learning(BA), Pattern Recognition(AA), Bioinformatics(AA), Graduate Artificial Neural Networks(AA), Management for Engineers(AA)

## Professional Experience

### Boston University Artificial Intelligence Research Group

Boston, MA, USA

PHD, RESEARCH FELLOW

2020 - Present

- My current focus in research is learning better cross lingual representations through multitask and contrastive learning that will allow solving multiple cross lingual tasks more robustly.
- Working on bias detection in natural language data(books and news) through time within **2021 Google Research Scholar Program**.
- Leading research project for Ottoman handwritten text recognition which received **\$50K** from the Scientific Research Council of Turkey.

### TRIA AI

Istanbul, TR

Co-FOUNDER & CEO

2018 - 2020

- Founded company, led business development, closed contracts worth over **\$100K**, and managed client relations. Worked with the C-Suite of LC Waikiki, multi-billion retailer present in 40 countries, to guide their AI strategy to increase online sales.
- Deployed an ML model for LC Waikiki for behavioral customer segmentation, customer lifetime value prediction and churn analysis that achieved **+100%** increase in conversion rates for targeted ads.
- Worked with DEDAS, one of Turkey's biggest electric distributors, to detect illegal uses of electricity and increased the detection rate by **+150%** with estimated business impact of **\$500K**.

### Turkcell Global Information

Istanbul, TR

TECHNICAL PROJECT LEAD, ML ENGINEER

2017 - 2018

- Joined AI team as a founding member. Engineered a text classification pipeline for routing customer issues with business impact of **\$250K**.
- Led conversational modeling project which secured **\$200K** award grant from Scientific Research Council of Turkey.

## Publications

- [1] M. Y. Kocyigit, J. Lee, and D. Wijaya, "Quality estimation for corpus mining," in *ACL(Under Review)*, 2022.
- [2] H. Kané, M. Y. Kocyigit, A. Abdalla, P. Ajanoh, and M. Coulibali, "Nubia: Neural based interchangeability assessor for text generation," in *INLG, EvalNLEval*, 2020.
- [3] H. Kané, M. Y. Kocyigit, P. Ajanoh, A. Abdalla, and M. Coulibali, "Towards neural similarity evaluator," in *NeurIPS 2019, Document Intelligence*, 2019.

## Leadership

### COVID-19 Datathon - Turkey

Istanbul, TR

DIRECTOR - TRIA AI

2019

- Organized the first COVID-19 Datathon in Turkey to, digitally, bring people together and fund projects that can serve the public good amidst the crisis. With +60 teams and around 150 participants the top 4 projects were selected and awarded ₺15K.

### Critical Thinking Society, Bogazici University

Istanbul, TR

FOUNDER & DIRECTOR

2014 - 2015

- Found the first Critical Thinking Society in Bogazici University where we organized workshops for over 500 participants to teach and engage on how to use critical thinking for argumentation, media consumption and preventing misinformation.

## Awards

2012 **Presidential High Honour Scholarship**, Turkish University Entrance Exam - Sciences Top 100 / 2M students

Istanbul, TR

## Skills

### Programming Language

Python, C, MATLAB, ATS, Assembly  
English(Advanced), Arabic(Intermediate), German(Intermediate), Turkish(Native)