

Mesut Şafak BİLİCİ

EDUCATION

- **Yıldız Technical University (YTU):** 2017 - 2022
 - Bachelor of Science in Computer Engineering, 4th grade
 - Grade Point Average: 3.50/4.00

WORK & RESEARCH EXPERIENCE

- **Research Engineer at Huawei:** 02/2022 - ...
 - AppGallery Search NLP Team.
 - Optimization of search engines and ranking systems.
 - Research and development on both structured and unstructured data.
- **Researcher at YTU NOVA Lab.:** 12/2020 - 02/2022
 - Research lab under the supervision of Assoc. Prof. Dr. Mehmet Fatih Amasyali.
 - Published two papers on data augmentation for NLP with Variational Bayes.
- **Natural Language Processing Engineer at Artiwise:** 06/2021 - 09/2021
 - Worked on dialogue act classification and emotion recognition for conversational systems.
 - Implemented Aspect Based Sentiment Analysis models for advanced customer review analytics.
- **Data Science Intern at Scoutium:** 07/2020 - 09/2020
 - Integrated data processing scripts for football analytics with Python.
 - Created a flexible Python package for REST API integration with AWS S3 pipeline.
 - Big data management with MySQL and AWS Environments.

VOLUNTEER

- **AI Program Specialist at inzva:** 08/2021 - ...
 - Part of the team that organizes the syllabus of the AI programs.
 - Technical mentoring for the project groups.
 - GPU server administration.
- **Deep Learning Study Group Guide at inzva:**
 - Guidance for 2 weeks of 12-weeks-long advanced Deep Learning study group. Covered topics: word embeddings, sequential models, neural machine translation.

PROJECTS

- **Academic Paper Title Recommender:** Supervised text summarization /title generation app based on academic paper abstracts, with sequence to sequence LSTM and T5.
- **x-tagger:** A Natural Language Processing toolkit for part of speech tagging and named entity recognition with various computational linguistics and deep learning methods.
- **bayesmedaug:** A Python library that optimizes your data augmentation hyperparameters for medical image segmentation tasks by using Gaussian Process and Bayesian Optimization.

SKILLS & KNOWLEDGE

- **Academic Knowledge:** Natural Language Processing, Bayesian Machine Learning, Data Science, Medical Image Segmentation.
- **Software:** Python, C/C++, R, Java, Haskell, Shell, Tableau.
- **Database:** MySQL, PostgreSQL, PL/pgSQL.
- **Cloud Services:** AWS S3, AWS Athena.



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- **M. Şafak Bilici**, Mehmet Fatih Amasyali. “Transformers as Neural Augmentors: Class Conditional Sentence Generation via Variational Bayes”, submitted to International Conference on Pattern Recognition (ICPR), 2022.
- E. Sadi Uysal, **M. Şafak Bilici**, B. Selin Zaza, M. Yiğit Özgenc, Onur Boyar, “Exploring The Limits Of Data Augmentation For Retinal Vessel Segmentation”, 2021. arXiv: 2105.09365 [eess.IV]
- **M. Şafak Bilici**, Mehmet Fatih Amasyali. “Variational Sentence Augmentation For Masked Language Modeling” in Innovations in Intelligent Systems and Applications Conference (ASYU), 2021.