Mesut Şafak BİLİCİ

EDUCATION

- **Yıldız Technical University (YTU):** *2017 - 2022*
  - *Bachelor of Science in Computer Engineering, 4rd grade*
  - *Grade Point Average: 3.49/4.00*

WORK & RESEARCH EXPERIENCE

- **Research Engineer at Huawei:** *02/2022 - ...*
  - Implementation of Deep Learning solutions for AppGallery Search.
- **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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Publications & Preprints

– **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 Özgenç, 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.