Mesut Şafak BİLİCİ

Date Of Birth: 08/1999
GSM: +90 553 385 3245
Address: Sarıyer, Istanbul/Turkey
Email: safakk.bilici.2112@gmail.com
GitHub: github.com/safakkbilici
Website: safakkbilici.github.io
LinkedIn: linkedin.com/in/msafakbilici

Education

- **Yıldız Technical University (YTU):** *2017 - 2022*
  - *Bachelor of Science in Computer Engineering, 4^{rd} grade*
  - *Grade Point Average: 3.48/4.00*

Work & Research Experience

- **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.
- **Researcher at YTU NOVA Lab.:** *12/2020 - ...*
  - Research lab under the supervision of Assoc. Prof. Dr. Mehmet Fatih Amasyali.
  - Published a paper on a novel sentence augmentation technique with Variational Bayes and Transformers for low resource languages.

Volunteer

- **Lecturer at SkyLab and Data Science Community at Yildiz Technical University:**
  - Introduction To Machine Learning, *02/2020 - 03/2020*
  - Introduction To Deep Learning, *10/2020 - 11/2020*
- **Founder & Researcher at Sky Lab AI Research:** *03/2020 - 06/2021*
  - Conducting scientific research, projects and lectures under a student's club.
- **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 based on academic paper abstracts, with sequence to sequence LSTM and T5.
- **Predicting Cryptocurrency Rates Using Financial Statements Made On Twitter:** Stock market prediction using Twitter related statistical features with various Time Series & Boosting models, and real-time deployment for inference.
- **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, Biolinguistics, Medical Imaging.
- **Software:** Python, C/C++, R, Java, Haskell, Shell, Tableau.
- **Database:** MySQL, PostgreSQL, PL/pgSQL.
- **Cloud Services:** AWS S3, AWS Athena.
- **Soft Skills:** Teamwork, Problem-Solving, Analytical Thinking, Communication.

Publications & Preprints

- 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.