

# Mesut Şafak BİLİCİ

## EDUCATION

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- **Yıldız Technical University:** 2017 - 2022
  - Bachelor of Science in Computer Engineering, 3<sup>rd</sup> grade
  - Grade Point Average: 3.41

## WORK & RESEARCH EXPERIENCE

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- **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 NOVA Lab.:** 12/2020 - ...
  - Research lab under the supervision of Assoc. Prof. Dr. Mehmet Fatih Amasyali.
  - Developed text augmentation technique based on Variational Autoencoder GRU for low resource languages like Turkish.

## VOLUNTEER

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- **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 - ...
  - 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

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- **Academic Paper Title Recommender:** Supervised text summarization /title generation based on academic paper abstracts, with sequence to sequence LSTM and T5.
- **Variational Text Augmentation For Low Resource Languages:** A novel data augmentation method for Turkish language with GRU-Variational Autoencoders, to improve pre-training and fine-tuning masked language model performance.
- **x-tagger:** A Natural Language Processing toolkit for part of speech tagging and named entity recognition with various computational linguistics and deep learning methods.

## SKILLS & KNOWLEDGE

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- **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.

## INTERESTS

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- **Academic and Professional:** Natural Language Processing, Data Science, Machine Learning, Data Engineering Bayesian Machine Learning.
- **Personal:** I am a piano player and Classical Music composer. I have 2 solo albums and 1 album with my Progressive Rock ex-band.



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## PUBLICATIONS

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E. Sadi Uysal, M. Şafak Bilici et al. Exploring The Limits Of Data Augmentation For Retinal Vessel Segmentation. 2021.  
arXiv: 2105.09365 [eess.IV]