

# Mesut Şafak BİLİCİ



## EDUCATION

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

## WORK & RESEARCH EXPERIENCE

- **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 Enviroments.
- **Researcher at NOVA Lab.:** 12/2020 - ...
  - Research lab under the supervision of Assoc. Prof. Dr. Mehmet Fatih Amasyali.
  - Research on intersection of Variational Inference and Natural Language Processing.

## 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 - ...
  - Conducting scientific research, projects and lectures under a student's club.

## PROJECTS

- **Academic Paper Title Recommender:** Supervised text summarization/title generation based on academic paper abstracts, with sequence to sequence LSTM and T5.
- **Damage Detection on Metal Plates:** Real time multiclass damage detection on metal plates using Tensorflow, OpenCV and Faster R-CNN algorithm.
- **Synthetic Music Generation:** A research project, generating synthetic music with Temporal Generative Adversarial Networks and Vector Quantized Variational Autoencoders.
- **OpenCARGO:** A cargo submitting, tracking application written in Java 1.8. GUI is implemented in Java Swing and Database is implemented with MySQL.
- **Six Degrees of Kevin Bacon:** Distance computation with Breadth First Search over a bipartite undirected graph implementation for connection map between other actors-movies and Kevin Bacon from a given dataset.

## SKILLS & KNOWLEDGE

- **Programming Skills:** Python, C/C++, R, Java, Haskell, Shell.
- **Frameworks:** PyTorch, NLTK, spaCy, Keras, NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, OpenCV.
- **Database:** MySQL, PostgreSQL, PL/pgSQL.
- **Cloud Services:** AWS S3, AWS Athena.
- **Soft Skills:** Teamwork, Problem-Solving, Analytical Thinking, Communication.

## INTERESTS

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

## REFERENCES

Available upon request.

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