CEYHUN EMRE ÖZTÜRK
Electrical & Electronics Engineer, M.S.

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Languages

Turkish: Mother Tongue,
English: TOEFL iBT (2022): 104/120,
German: A2

Computer Skills

Windows, Ubuntu;
Microsoft Office, LaTeX; Python,
Tensorflow, Pytorch, MATLAB,
Simulink, C++, C, Java.

SUMMARY

An expert AI engineer with 7 years' experience in programming languages, who has taken his master's degree in 2023. Well-versed in various programming languages such as Python and MATLAB. 4 years' experience in defense industry. Open for improvement and systematic.

Year of Birth/Place of Birth

1998/ Aydın, Turkey.

Work Experience

September 2023–Present
Expert AI Engineer • ASELSAN
I worked on applying reinforcement learning algorithms to military simulations.
March 2022–August 2023
NLP Research Engineer • ASELSAN
I conducted research in natural language processing.
December 2019–February 2022
System Design Engineer • ASELSAN
I made effectiveness analysis of the defense systems and I designed the subsystems of the air defense systems.
June 2019–July 2019
Systems Engineering Intern • ASELSAN
I conducted various tests on military radios at the Avionic Communication Systems Engineering Department.
June 2018–July 2018
Research Intern • TÜBİTAK SAGE
I designed interface modules using VHDL and Verilog HDL such that these modules will be used on a type of FPGA which is connected to a QDR II+ SRAM type and I tested these modules by simulation.

Education

- 2020-2023: Bilkent University, Ankara, Turkey.
  M.S. in Electrical and Electronics Engineering (GPA: 3.44/4)
  Thesis title: Retrieving Turkish Prior Legal Cases with Deep Learning
- 2016-2020: Bilkent University, Ankara, Turkey.
  B.S. in Electrical and Electronics Engineering (GPA: 3.55/4)
- 2012-2016: Aydın High School of Science, Aydın, Turkey.

Achievements

- GRE General Test (2019): Qualitative: 169/170, Verbal: 158/170.
- ALES 2019 (Nationwide Academic Personnel and Postgraduate Education Entrance Exam): Ranked 87th in Turkey.
- Comprehensive Scholarship in Bilkent University: I gained this scholarship as a result of my rank in LYS 2016.
- LYS 2016 (Nationwide University Entrance Exam): Ranked 234th in Turkey.

Publications

[1] **C. E. Öztürk**, Ş. B. Özçelik and A. Koç, " A Transformer-based Prior Legal Case Retrieval Method," *2023 31st Signal Processing and Communications Applications Conference (SIU)*, 2023.

[2] **C. E. Öztürk**, E. H. Yılmaz, and Ö. Köksal, "Transformer-based Bug/Feature Classification," *2023 31st Signal Processing and Communications Applications Conference (SIU)*, 2023.

[3] **C. E. Öztürk**, E. H. Yılmaz, Ö. Köksal, and A. Koç, "Software Module Classification for Commercial Bug Reports", *2023 IEEE International Conference on Acoustics, Speech, and Signal Processing Workshops (ICASSPW)*, Rhodes Island, Greece, 2023, pp. 1-5.

[4] **C. E. Öztürk**, Ö. Köksal, Ş. B. Özçelik and A. Koç, "Prior Case Retrieval for the Court of Cassation of Turkey", *2022 16th International Conference on Signal Image Technology & Internet Based Systems (SITIS)*, 2022, pp. 539-544.

[5] Ö. Köksal and **C. E. Öztürk**, "A Survey on Machine Learning-based Automated Software Bug Report Classification," *2022 International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)*, Dijon, France, 2022, pp. 635-640.

[6] A. C. Aras, **C. E. Öztürk** and A. Koç, "Feedforward Neural Network Based Case Prediction in Turkish Higher Courts," *2022 30th Signal Processing and Communications Applications Conference (SIU)*, 2022, pp. 1-4.

[7] **C. E. Öztürk**, Ş. B. Özçelik and A. Koç, "Predicting Outcomes of the Court of Cassation of Turkey with Recurrent Neural Networks," *2022 30th Signal Processing and Communications Applications Conference (SIU)*, 2022, pp. 1-4.

[8] E. Mumcuoglu, **C. E. Öztürk**, H. M. Ozaktas and A. Koç, "Natural Language Processing in Law: Prediction of outcomes in the Higher Courts of Turkey", *Information Processing and Management,* vol. 58, No. 5: 102684*,* 2021.

Publications under Review

[1] F. Şahinuç, **C. E. Öztürk**, and A. Koç, "Dynamic Sense-Structured Multimodal Gaussian Word Embeddings", *IEEE/ACM Transactions on Neural Networks and Learning Systems (TNNLS)*, Submitted: 2023.

[2] **C. E. Öztürk**, Ş. B. Özçelik and A. Koç, "Prior Court Case Retrieval with Sentence Transformers in Turkish Courts", *IEEE/ACM Transactions on Audio Speech and Language Processing (TASLP),* Submitted: 2022.
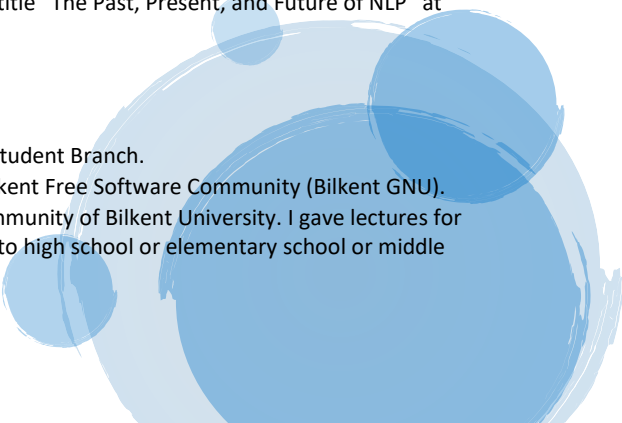
Teaching

- 2023 Spring: Homework grader of the EEE 486 course (Natural Language Processing) at Bilkent University, Ankara, Turkey.
- 2020-2023: Homework grader of the EEE 391 course (Basics of Signals and Systems) at Bilkent University, Ankara, Turkey.

Talks

- December 28, 2023: I gave a talk with title "AI Aided Battle Simulation" at TED University.
- December 1, 2023: I gave a talk with title "The Past, Present, and Future of NLP" at Hacettepe University.

Social Activities

- 2017-2020: Member of Bilkent IEEE Student Branch.
- 2017-2018: Events Coordinator of Bilkent Free Software Community (Bilkent GNU).
- 2016-2017: Volunteer at the TDP community of Bilkent University. I gave lectures for free to the students who were going to high school or elementary school or middle

- school.
- 2013-2016: Licensed table tennis player for Aydın High School of Science.

References

Contact information of the references can be provided if needed.

Hobbies

Tennis, doing workout, singing, playing football.