

Çağın ÇEVİK

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Engineering/research positions in artificial intelligence applications, signal processing, image processing, healthcare and neurotechnology experimental design and device development.

ACADEMIC QUALIFICATIONS

PhD in Biophysics	2026 (Exp.)	Istanbul University-Cerrahpaşa (IUC), İstanbul, Turkey
MSc in Biophysics	2022	Istanbul University-Cerrahpaşa (IUC), İstanbul, Turkey
BS in Mechatronics Engineering	2019	Sakarya University (SAU), Sakarya, Turkey
HS in Ship Machinery Management	2013	A. Y. Aksoy Technical Anatolian High School, Çanakkale, Turkey

AREAS

Neuroengineering:	Clinical Research, In vivo/vitro electrophysiology and awake behaving recordings, Signal processing and analysis, Experimental and analytical design, EEG, ECG, EMG, fMRI, Cell Culture, ELISA Method, Trace Elements, Biostatistics, Medical electronics
Data Science:	Signal classification, Image segmentation, Recommender Systems, ML Models (Sup,Unsu,Reinf), Statistics, Neural Networks, Performing Metrics, Hyperparameter Tuning, Ensemble Models, Data Format Transformation, Pandas, Scikit-learn, SciPy, NumPy, TensorFlow, PyTorch, Keras, Matplotlib, Seaborn, Plotly, Classic and Cloud ML platforms
Other:	Python, MATLAB, C++, R, C#, Git, Agile Methodology, Jira, Linux, MacOS, SPSS, Tableau, MySQL MongoDB, Photoshop, Premiere Pro, Touchdesigner, Ableton Live, Raspberry pi, Proteus, PLC, Pic Programming, ESP32, NFC, RFID, ThingSpeak, Blynk, Firebase, SolidPCB, Catia

RELEVANT PROFESSIONAL EXPERIENCE

Biomedical engineer	Analog Devices – Maslak, İstanbul	2022-present
<ul style="list-style-type: none">Expand Digital Healthcare team's understanding of detectable biophysical and biochemical phenomena as they relate to disease physiology.Engage with external stakeholders (clinicians, researchers, and customers) to uncover insights and turn application requirements into clear technical specifications.Be a hands-on member of multi-disciplinary teams of HW, SW and Algorithm Engineers to prototype and develop breakthrough medical systems.Support clinical validation activities, engage with external parties to conduct clinical studies, oversee data collection, and ensure physiologically relevant data analysis and interpretation.		
R&D engineer	Sankara Brain and Biotech. Research Center - Avcılar Teknokent, İstanbul	2019-2022(4 years)
<ul style="list-style-type: none">Clinical/Ethics setup of in vivo electrophysiology and awake behaving recordings, signal processing and analysis.Data mining, biomedical technologies, modern statistical inference, and machine learning studies.Cognitive/behavioral neuroscience and neurodegenerative diseases research.Development and operation support (Deodorization, Extraction, Distillation, Purification).Execution and support of academic-industry collaborations with publication and patent studies (Healthcare-Engineering).		
R&D Intern	Turkish Wagon Industry Inc. - R&D Department - Sakarya, Turkey	2018-19(6 months)
<ul style="list-style-type: none">Manufacturing, Repair, Chemical Works, Electric-Electronics, Bogie Factory and R&D Department activities practice.		
Automation Intern	Seyir Engineering - Automation Department - Sakarya, Turkey	2017(3 months)
<ul style="list-style-type: none">PLC, Industrial PC, Electric Motor, Driver systems sale, repair, maintenance, and field applications.		
Energy Systems Intern	İÇDAŞ Steel, Energy and Shipyard - Power Plant - Çanakkale, Turkey	2016(3 months)
<ul style="list-style-type: none">1200 MW Bekirli Supercritical Power Plant switchyard, Boiler/Turbine, Reactor building.DESOX (Flue Gas Desulphurization) and DENOX (Denitrification) units.Lignite Supply Line and Port Operations.		
Motorman	HCB, Gisan, Gundem Shippings - Engine and Electricity Departments - Int. Waters	2013-16 Summers
<ul style="list-style-type: none">Design, develop and take responsibility for the ship machinery and related equipment including propulsion machines and power supply systems.Ships with engine power between 1500-3000 kW in Atlantic Ocean, Mediterranean, Black Sea area.		

- Tracing out some of the different systems onboard as well as getting hands on experience, learning how to strip an engine and inspect components.

ACADEMIC CONTRIBUTIONS

- Çağın Çevik, "Vehicle Management with The Attention Score Obtained by Using Brain Signals", **JOINSSR**, vol. 1, no. 1, pp. 30–38, Dec. **2020**.
- A N. S. Peighambardoust, Çağın Çevik, T. Assar, S. Jung, S. Y. Lee, and J. H. Cha, "Pulsed electric current sintering of TiB2-based ceramics using nitride additives", **Syn. Sint.**, vol. 1, no. 1, pp. 28-33, Apr. **2021**.
- Çağın Çevik, R. Halici, "The effect of epoch length on the classification of schizophrenia using machine learning and deep learning techniques via EEG signals", Abstract, **Ege Biennial International Neuroscience Graduate Summer Sch., 2022**.
- ÇEVİK, Çağın, et al. "Köpeklerde Elektroensefalografi ve Elektrokülografi." Dicle Üniversitesi Veteriner Fakültesi Dergisi 16.1: 51-58.

SELECTED PROJETS

Researcher **TÜBİTAK TEYDEB 1507** – Sankara BBRC/Biruni Uni. Faculty of Medicine 2021 – 2022

- Development of Additives for the Control of Diabetes. Clinical EEG, Statistics, SPSS, and Response surface methodology.

Industry Advisor **TUBİTAK 2209-B** - Sankara BBRC/Sakarya Uni. Dept. of Computer Science 2021 – 2022

- Development of Social Network Platform Between R&D Units. MongoDB, Git, Jira, Agile/Scrum, Figma, ASP.NET Core, SonarQube technologies.

Project manager **BAP Project** - İstanbul Uni-Cerrahpasa Biophysics/Veterinary Internal Diseases 2021 – 2022

- Investigation of the Effects of Hericium Erinaceus and Valeriana Officinalis Use in Anxious Dogs by Electroencephalography Method. Experiment design, EEG, ELISA Method, SPSS, Hypothesis and Correlation analyzes.
- Investigation of the relationship between trace element levels of happiness-stress hormones in morbidly obese people.

Consultant **TUBİTAK ARDEB-1002** - Nevşehir Hacı Bektaş Uni. Gastronomy and Culinary Arts 2022

- Determination of the Effect of Food Presentation on Human Taste Perception by Neuroimaging Techniques and Facial Expression Analysis Technique. EEG, Face Image Analysis, SPSS, Hypothesis and Correlation analyzes.

Participant **TÜBİTAK 2237-A** - Hacettepe Uni. Faculty of Science, Statistics Department 2021

- Statistical Modeling Techniques and Applications in Natural Sciences. Python, R, Scikit-learn, TensorFlow, PyTorch, Keras, SPSS, Dtree.

Researcher **TÜBİTAK 1512** - Grow Agriculture Vertical Aeroponic Agriculture Technologies 2020

- IOT applications and Biotechnology R&D activities. Data Collection and Analysis, STM32 Nucleo, PCB works, Mechanical assembly.

Researcher **TAGEM R&D Support Program** - Nanoyaşam Nanobiyoteknoloji R&D LTD. Co. 2018

- Purification of Anthocyanins Using Advanced Technology and Production as Food Additives with Industry 4.0 Applications. Siemens Simatic Wincc.

SELECTED CERTIFICATES

- Introduction to Programming with MATLAB ([Vanderbilt University, Coursera](#))
- Fundamentals of Digital Signal Processing and Matlab Applications ([Udemy](#))
- Fundamentals of Deep Learning ([Nvidia](#))
- Getting started with AI on Jetson Nano ([Nvidia](#))
- Computational Neuroscience ([University of Washington, Coursera](#))
- Data Science for Everyone ([Datacamp](#))
- 16+ Hours of Data Science and Machine Learning with Python ([Udemy](#))
- The Development of Health Monitoring Systems (Saint Petersburg Electrotechnical University, Coursera)
- Introduction to Deep Learning with OpenCV (LinkedIn)
- Google Cloud Fundamentals: Core Infrastructure (Istanbul Datascience Academy)
- Docker for Data Scientists (LinkedIn)
- Applied Data Analysis and Data Visualization with Tableau (Udemy)
- Statistics and Machine Learning in Data Analysis, Optimization Algorithms (Interdisciplinary Brain Research Association)
- Certificate of Animal Use in Experimental Research (Medipol University, Animal Res. Local Ethics Committee)
- Good Clinical Practice (NIDA Clinical Trials Network)

LEADERSHIP / SOCIAL SKILLS

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| • Co-Founder, Sakarya University Artificial Intelligence Community | 2017 |
| • Co-Founder, Sakarya University Nature Sports Community | 2015 |
| • Tema, AFAD, Yesilay volunteer | 2015 - present |
| • Scout Leader, Cross-country hitchhiker | |
| • Videographer, Data driven digital music/art creation enthusiast! | |

SEMINARS

- Bogazici University Datacamp (Speaker)
- IEEE Sakarya University Student Branch Youtube Webinar (Speaker)
- IEEE İstanbul Kültür University İnsanV2.0 – Transhumanism with Modern Neurotechnological Studies (Speaker)
- Signal Analysis with Matlab - Heart Rate Via ECG Data (Instructor)
- SAU Nature Sports Community Essential Camping (Instructor)

LANGUAGES

- Turkish (Native)
- English (Proficient)