






Abdullah Veli Özcan

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About Me

I am Abdullah Veli Özcan, a Data Scientist with a B.Sc. in Software Engineering and one year of industry experience. Committed to continuous learning, I stay close to cutting-edge AI research and put new ideas to the test in global data-science competitions. These challenges expose me to the full machine-learning spectrum and drive me to design practical, dependable solutions to real-world problems.

Experience

BTS Group

02/2024 – Ongoing

Data Scientist & Associate Data Engineer

- Serving as technical lead for an end-to-end RCA platform, integrating LLM-based analysis.
- Developed and optimized clustering algorithms to analyze and identify communities within complex network structures, and designed data-driven grouping methods for network events, enabling event analysis 84% faster and 71% more accurate than legacy solutions.
- Built and deployed a production-grade parser LLM for structured information extraction, achieving 93% precision and eliminating manual parsing bottlenecks.

Publications

An Efficient Federated Learning–Based Digital Twin Edge Network: A Case Study for Industry 4.0

IEEE WCNC, 2025, Milan, Italy. DOI: [10.1109/WCNC61545.2025.10978750](https://doi.org/10.1109/WCNC61545.2025.10978750)

Competitions

- **Teknofest Turkish Natural Language Processing Competition – Finalist** 08/2024
 - Tackled the problem of entity-based sentiment analysis by creating a coreference resolution-aware system for Turkish, addressing a significant gap in the field, continuing to refine this solution to fully meet the challenge.
- **iyzico Datathon – 2nd / 328** 02/2024
 - Forecasted the net transaction counts for various businesses in the last quarter of the year, based on the monthly recorded transaction numbers from the beginning of the year.
<https://www.kaggle.com/competitions/iyzico-datathon/leaderboard>
- **Datathon: Job PredictaThon – 2nd** 02/2024
 - Recommending new job listings based on applicants' previous applications.
<https://www.kaggle.com/competitions/datathonjob-predictathon/leaderboard>

Projects

- **Sound Recognition**
 - Application captures audio from the user's microphone and records it on the device. It then performs voice and emotion predictions based on this recording.
<https://github.com/veliozcancbu/Sound-Recognition>
- **The Scikit-Learn User Guide's explanation in Turkish**
 - Explaining the scikit-learn user guide in Turkish with illustrations, mathematical explanations, and code examples
<https://github.com/veliozcancbu/scikit-learn-user-guide-explanation-in-Turkish>

Voluntary Contributions

Researcher <i>SDxRG (Software Defined Everything Research Group)</i> <ul style="list-style-type: none">Active member of the research group, focusing on topics like Software-Defined Networks, Blockchain, and IoT. https://sdxrg.mcbu.edu.tr/	09/2023 - Ongoing
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Education

Software Engineering BSc. <i>Manisa Celal Bayar University</i>	06/2024
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Technical Skills

<ul style="list-style-type: none">PythonSQLAutoML ToolsNLP & LLMGraph TransformersGrafanaPower BI	<ul style="list-style-type: none">Machine LearningGitPyTorchHugging FaceOpenCVMongoDBMatplotlib & Seaborn	<ul style="list-style-type: none">Deep LearningsklearnTensorflow & KerasNetworkXDockerTableau
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Languages

<ul style="list-style-type: none">Turkish: NativeEnglish: Professional Working Proficiency

Certifications

<ul style="list-style-type: none">Natural Language Processing Specialization - DeepLearning.AI, 2024IBM Data Science Professional Certificate, 2023Google Advanced Data Analytics Professional Certificate, 2023Deep Learning Specialization - DeepLearning.AI, 2023Machine Learning Specialization - DeepLearning.AI, 2023
