

# BERKE KURT

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## SUMMARY

I am an Artificial Intelligence and Data Engineering undergraduate at Istanbul Technical University with a passion for exploring the transformative potential of deep learning. My academic journey has equipped me with a strong foundation in AI including machine learning, **natural language processing**, **speech processing** and data mining. Through hands-on experience with cutting-edge technologies like text to speech models, data mining algorithms, deep learning architectures and machine learning frameworks (PyTorch, Tensorflow) I have developed strong technical expertise in solving real-world challenges. I aim to leverage my skills in AI to drive innovation and create impactful solutions that benefit society.

## EDUCATION

İstanbul, Türkiye

### Istanbul Technical University

2021 - 2026

BSc in Artificial Intelligence and Data Engineering

## PROJECTS

### PREDICTIVE ANALYTICS FOR E-COMMERCE PRODUCT REPLENISHMENT

Developed a machine learning model using XGBoost and CatBoost to predict customer repurchase timing in e-commerce, leveraging advanced feature engineering and over 1 million transactional records.

### EMOTION REPRESENTATION IN TTS MODELS

Enhanced the emotional expressiveness of text-to-speech systems by integrating emotion embeddings into StyleTTS2, utilizing datasets like RAVDESS for robust emotional modeling.

### DATABASE DESIGN AND IMPLEMENTATION

Designed and implemented a database system for a music streaming platform, featuring a RESTful API with Flask-RESTX, JWT-based authentication, and advanced relational modeling.

For further information: <https://berkekurt.com/#projects>

## COURSES TAKEN

I took several courses, below are some of the important and bana çok şey öğreten kurslardı.

- Deep Learning
- Natural Language Processing
- Speech and Audio Processing
- Data Mining
- Cognitive Neuroscience
- Optimization
- Game Theory
- Algorithms I & II
- Database Systems

For further information: <https://obs.itu.edu.tr/public/DersPlan/DersPlanDetay/1563>

## CERTIFICATIONS

Deep Learning by DeepLearning.AI on Coursera

🔗 [Verify](#)

Machine Learning Specialization by Stanford University & DeepLearning.AI on Coursera

🔗 [Verify](#)