

OSTİM TECHNICAL UNIVERSITY

**2024-2025 SEMESTER**

**ELECTRICAL-ELECTRONIC ENGINEERING DEPARTMENT GRADUATION PROJECT PROPOSAL FORM**

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| **Lecture Code: EEE400** | **Lecture Name: Graduation Project** |
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| **Project Title / Number of Students:** | **Emotion Analysis from Voice Signals (Speech Emotion Recognition)/2 Students** |
| **WORKS AND PROCEDURES TO BE DONE IN THE PROJECT****(Put the item number on the left and write it in order)** |
| **Item**1. Literature Review
2. Dataset Selection and Preprocessing
3. Model Selection
4. Model Training
5. Model Testing and Performance Evaluation
6. Result Analysis and Visualization
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| PROJECT AIMS |
| **Item**1. The aim of this project is to develop a robust machine learning or deep learning-based system capable of recognizing human emotions from voice signals.
2. The system will utilize various audio signal processing techniques to extract meaningful features, followed by the application of classification algorithms to accurately identify emotions such as happiness, sadness, anger, and fear.
3. The ultimate goal is to improve the accuracy and efficiency of automatic emotion detection from speech, which can be applied in human-computer interaction, call center systems, and mental health monitoring.
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| **SUPERVISOR** |
| TitleAssist. Prof. Dr. | Name Surnameİclal ÇETİN TAŞ | Signature |