

## Annotation

This thesis discusses the implementation of speech recognition technology using advanced architectures of artificial neural networks. In the introductory part, a description of the speech recognition technology using an artificial neural network is presented. speech recognition methods are analyzed.

In the main part, artificial neural networks are studied, speech segmentation is calculated, and the operation of the Kohonen network is modeled. The implementation of the technology in the Python programming language is also provided. In the section Life Safety, the issues of air conditioning and fire safety are considered. In the economic part, the payback period of the project and profit generation are calculated. Depreciation expenses are accrued. A business plan will be developed.

