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   Titolo   Hands-on natural language processing with Python : a practical guide
                        to applying deep learning architectures to your NLP applications / /
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   Soggetti   Python (Computer program language)
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   Sommario/riassunto   Foster your NLP applications with the help of deep learning, NLTK, and
                        TensorFlow Key Features Weave neural networks into linguistic
                        applications across various platforms Perform NLP tasks and train its
                        models using NLTK and TensorFlow Boost your NLP models with strong
                        deep learning architectures such as CNNs and RNNs Book Description
                        Natural language processing (NLP) has found its application in various
                        domains, such as web search, advertisements, and customer services,
                        and with the help of deep learning, we can enhance its performances in
                        these areas. Hands-On Natural Language Processing with Python
                        teaches you how to leverage deep learning models for performing
                        various NLP tasks, along with best practices in dealing with today's NLP
                        challenges. To begin with, you will understand the core concepts of NLP
                        and deep learning, such as Convolutional Neural Networks (CNNs),
                        recurrent neural networks (RNNs), semantic embedding, Word2vec, and
                        more. You will learn how to perform each and every task of NLP using
                        neural networks, in which you will train and deploy neural networks in
                        your NLP applications. You will get accustomed to using RNNs and
                        CNNs in various application areas, such as text classification and
                        sequence labeling, which are essential in the application of sentiment
                        analysis, customer service chatbots, and anomaly detection. You will be

equipped with practical knowledge in order to implement deep learning in your linguistic applications using Python's popular deep learning library, TensorFlow. By the end of this book, you will be well versed in building deep learning-backed NLP applications, along with overcoming NLP challenges with best practices developed by domain experts. What you will learn Implement semantic embedding of words to classify and find entities Convert words to vectors by training in order to perform arithmetic operations Train a deep learning model to detect classification of tweets and news Implement a question-answer model with search and RNN models Train models for various text classification datasets using CNN Implement WaveNet a deep generative model for producing a natural-sounding voice Convert voice-to-text and text-to-voice Train a model to convert speech-to-text using DeepSpeech Who this book is for Hands-on Natural Language Processing with Python is for you if you are a developer, machine learning or an NLP engineer who wants to build a deep learning application that leverages NLP techniques. This comprehen...