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# Deep Learning for NLP and Speech Recognition

- A comprehensive resource that builds up from elementary deep learning, text, and speech principles to advanced state-of-the-art neural architectures
- A ready reference for deep learning techniques applicable to common NLP and speech recognition applications
- A useful resource on successful architectures and algorithms with essential mathematical insights explained in detail
- An in-depth reference and comparison of the latest end-to-end neural speech processing approach
- A panoramic resource on leading edge transfer learning, domain adaptation and deep reinforcement learning architectures for text and speech

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This textbook explains Deep Learning Architecture, with applications to various NLP Tasks, including Document Classification, Machine Translation, Language Modeling, and Speech Recognition. With the widespread adoption of deep learning, natural language processing (NLP), and speech applications in many areas (including Finance, Healthcare, and Government) there is a growing need for one comprehensive resource that maps deep learning techniques to NLP and speech and provides insights into using the tools and libraries for real-world applications. Deep Learning for NLP and Speech Recognition explains recent deep learning methods applicable to NLP and speech, provides state-of-the-art approaches, and offers real-world case studies with code to provide hands-on experience. Many books focus on deep learning theory or deep learning for NLP-specific tasks while others are cookbooks for tools and libraries, but the constant flux of new algorithms, tools, frameworks, and libraries in a rapidly evolving landscape means that there are few available texts that offer the material in this book. The book is organized into three parts, aligning to different groups of readers and their expertise.

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