

Chapter	Section	From where? Question –Input		How? Method	What? Target-Description
0	IT-based Automatic Text Summarization with the use of Text Generation Methods State of the Art and design of a prototype	Knowledge –Input		How? Method	What? Target-Description
		<ul style="list-style-type: none">• Research Papers• Books• HongKong, TH-OHM• Online Course	<ol style="list-style-type: none">1. What is the State of the Art of Text Generators and Text Summarizers?2. In what quality can I program the text generation prototype myself and what quality does it have compared to other ones?	<ol style="list-style-type: none">1. Presentation of the state of the art of Text Generators and Text Summarizers.2. Study of the relevant aspects of Text Generation and programming of an IT-based Text Summarizer prototype.	<ol style="list-style-type: none">1. State of the art technical elaboration.2. Programming of a prototypical algorithm that generates a summary for a given review input
		<ul style="list-style-type: none">• [0..1]• Scientific Writing	<ol style="list-style-type: none">1. How is my thesis structured?2. Which questions is my thesis going to answer, why should someone read it?	<ol style="list-style-type: none">1. Brief overview over the thesis2. Short but detailed introduction to all Chapters of this thesis.	<ol style="list-style-type: none">1. Pointing out the fundamental points2. Answer to the question, why my bachelor thesis makes sense and what is my motivation for
1	Introduction	1.2	Machine Learning	<ol style="list-style-type: none">1. How is Text Summarization related to Machine Learning?	<ol style="list-style-type: none">1. Presentation of all relevant aspects that belong to Text Summarization
		1.3	Case study	<ol style="list-style-type: none">1. What are current useful applications of word processing systems?	<ol style="list-style-type: none">1. Explanation through an interesting easy introduction.
		2.1	Text Generation Concepts	<ul style="list-style-type: none">• [1]• Paper Research	<ol style="list-style-type: none">1. Description of the application-oriented models for this topics using formulas and explanations.
2	Evolutionary View on the State of the Art	2.2	Advanced Approaches for Text Generation	<ul style="list-style-type: none">• [1]• [2..1]• Books	<ol style="list-style-type: none">1. Literature research of the Text Generation history (~60 years).2. Literature research of current papers
		2.3	Text Summarization Concepts	<ol style="list-style-type: none">1. Which historical achievements are necessary to know for understanding the advanced concepts of Text Generation?	<ol style="list-style-type: none">1. Presentation of the history of Text Generation in the form of a chronological sequence.2. Use of the first technologies
		2.4	Advanced Approaches for Text Summary	<ol style="list-style-type: none">1. What are current Text Summarizer systems capable of?2. Where are current application fields?	<ol style="list-style-type: none">1. Description of the application-oriented models for this topics using formulas and explanations.
3	Prototype	3.1	Zielsetzung / Anforderungen	<ol style="list-style-type: none">1. What should my prototype be able to achieve with given resources?2. Which output can be expected in the best case?	<ol style="list-style-type: none">1. Explanation of the scope of my prototype.2. Collection and classification of requirements for the algorithm and its output.
		3.2	Fachkonzept	<ol style="list-style-type: none">1. How is my prototype structured?2. Which algorithms do I use?3. Which processes do the data to be processed go through?4. How is the data processed?	<ol style="list-style-type: none">1. Technical concept completed.2. The prototype is modelled without IT reference on the basis of various submodels.3. The individual processes are modelled without a concrete implementation proposal.4. Data processing visualized
		3.3	Implementierung	<ol style="list-style-type: none">1. Which technologies do I use for my prototype:<ul style="list-style-type: none">- "What Python libraries and IDE?"- "What are the HW & SW requirements?"	<ol style="list-style-type: none">1. Creation of an IT concept in the form of a description of the necessary technical means using sub-models
4	Transferable knowledge	3.4	Evaluation	<ol style="list-style-type: none">1. How is the output of the prototype to be evaluated?2. How to evaluate the quality of the output?3. What can be improved?	<ol style="list-style-type: none">1. Target/actual comparison of the requirements with the output of the prototype.2. Comparison with related work.3. Research on potential improvements of the algorithm.
		4.1		By which elements could my project be modularly extended to produce a different or better result?	Placing the evaluation results in a social context.