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File name: 445348-GrayA-CSCM38-CW1\_Rep...

File size: 410.81K

Page count: 9

Word count: 3,164

Character count: 16,051

Submission date: 08-Nov-2020 06:35PM (UTC+0000)

Submission ID: 135748941

CSCM38: Adv Topic - Artificial Intelligence and Cyber Security - Coursework 1

Andy Gray 445348

## 1 Introduction

We will be looking at some issues surrounding an advanced topic within natural language processing (NIP). NIP is a form of artificial includinger (AI) that aim to as the automatic manipulation of natural language, like speech and text. by software [4]. However, lumnal language is highly andspinous, ever-changing and evolving. People are great at producing language and understanding language allowing them to be capable of communicating, perceiving, and understanding very complex and manced measings. At the same time, while we humans are great users of language, we are also not very good as formally recognising and great tensor of language, we are also not very good as formally recognising and is difficult for humans, the process, therefore, can not be straight forward for computers either. However, some advancements over the years, like sentimers analysis has allowed us to analyse general moods, and speech-to-text has geruindep revolutionised the way people on interest and create documents.

A swess infinitely processor in the 1900s, reminant the summer, evactor to 1911, offered three courses at the University of Geomes. At this university is where it got developed as a proposal for describing languages as "systems." Within the languages, a sound eprescribe a concept, a concept that shifts in which the property of the contract of the contract of the state of the unable-matchian named Alan Turing were a paper, laying out a test for a 'thinking' machine. In his paper, he said that if a machine could be part of a conversation, and it innitated a human so well that there were no noticeable differencess. The madnine could be condected capable of thinking [24]. However, the contraction of the contraction of the contraction of the contraction of the reverses. The madnine could be condected capable of thinking [24]. However, electrical network. These events belped impire the idea of AI, NLP, and the evolution of comparters [8].

In 1957 previous linguistic concepts got revolutionised, concluding that for a computer to understand a language, the sentence structure would have to be changed [6]. These revolutions created the style of grammar called Phase Structure Grammar, which methodically translated natural language sentence into a format that is usable by computers [8].

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