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MIT WORLD PEACE
UNIVERSITY | PUNE

	Cognitive Computing
	and
	Nutral Language Processing
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Problem Stuhment: Use Watson INLIN api for:
	- User dictates a pravyraph that
	is converted to text
	- Word Speller
4	- Simple Calculator with voice
	Commandi
	The state of the s
	Objectives:
	1> To study and upload IBM watson apis.
	2) To Cearn the conapt of Text to
and the said	special and Specials to Text
	Construction of the thirty continues the second of the sec
	Theory:
	Inverse surface
	IBM Watson API: IBM watson is a
	"question-answer" competer system
	capable of answering abestion
	pond in nutral language,
	which is developed by
	IBM: dup@A project.
	TO THE TAXABLE PARTY OF THE PAR



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	The watson API allows the programmes to un
	The watson API allows the programmes to un watson capagolitics in their application without
	newing to create any model.
	The state of the s
	C
	Specch Recognition: It is a dominin which
	1) CVUCIAL IN COUNTRIC COMPORTING
	It deals with identifying
	and interpriting roman speech
	in order to interact
	with them in a more
	natural manner.
	and reduce MOL 1 & Company To the
	Courts to Tark (Tark To Samela) 2 Ha
	Speech to Text & Tax To Speech: Both are
	Overal parts of speech novyntion
	System that allow a computer
	to convert duta into one into
	either format.
Photos and the second	Both then conget work
	band on LSTM & CNNs.
	257M: Long-Short Term Memory Cells are
	mural network architutur with the
	capabilities of Moldin many This
	capabilities of Molding memory. Then are improved raviants of Recurant Neural
	Networks.
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TTS: Conviv+ ASCII fat into Audio
STT: Convivts audio into ASCII text
Platform: IBM watson cloud and JSON;
Jupyter Notebook
Input: Your Speech
Output: Text; Text & Andio; Culculation Tash.
Conclusion: Thou, learned the concept of STT & TTS using IBM watson.
FAQ
Question 1
Python models und in speech recognition: - scipy. io. warfle: To write war file - Sound Device: To nowed sound - Simple Audio: To play sound
- 16m-watson: To got the API mudules - 05: To read & locut audio files.

Over tion 2
7
=> For Authoritication:
16m-cloud-sdh-core: IAM Authinticator
=) For TTS:
16m-watson: Text to Specih VI
function: Synthesize ()
=) For STT:
16m - watson: Spuch to Text VI
function: . recognize ()
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