Beta Presentation
Cognitive Enterprise Software Robots

The Capstone Experience

Team Volkswagen

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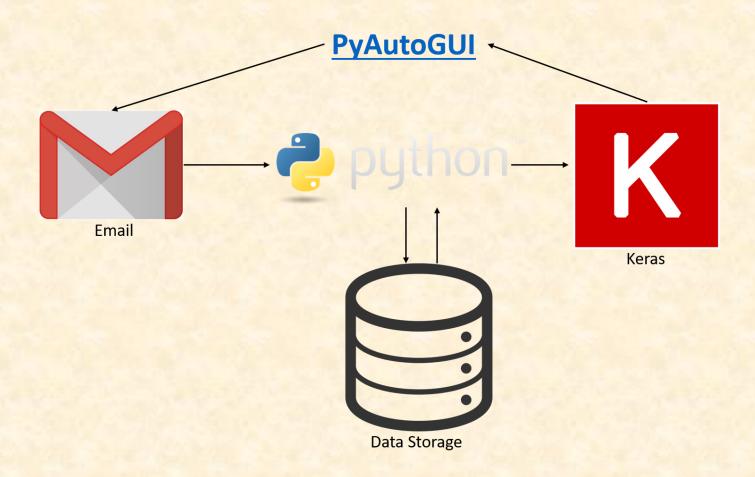Maryam Irannejad Najafabadi
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Department of Computer Science and Engineering
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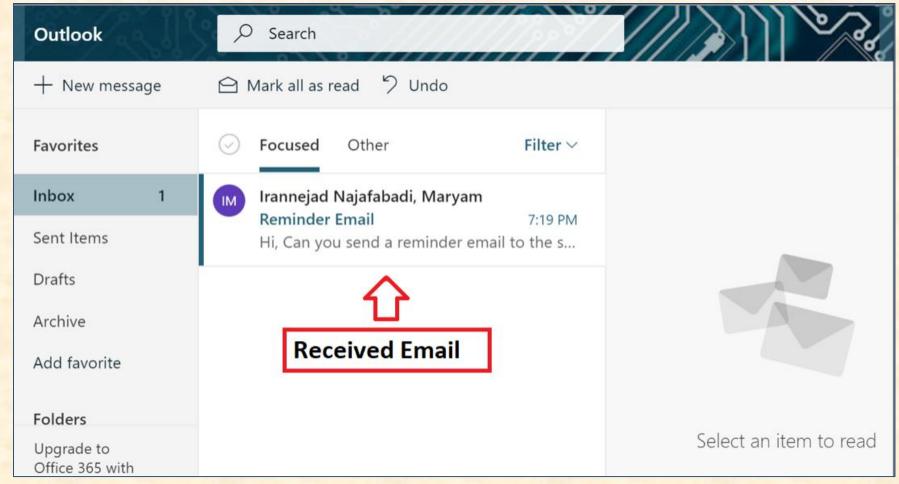Spring 2019

From Students…
…to Professionals

Project Overview

- Software robot to automate repetitive tasks
- PyAutoGUI to automate keyboard and mouse inputs
- Keras/Tensorflow to predict and learn future clicks
- Log clicks in order to learn tasks and monitor bot's performance
- NLP in order to interpret emails and start performing business tasks
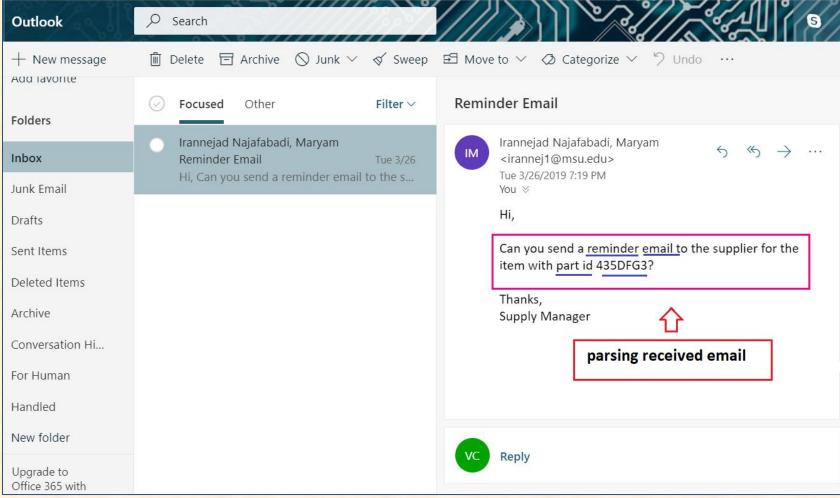
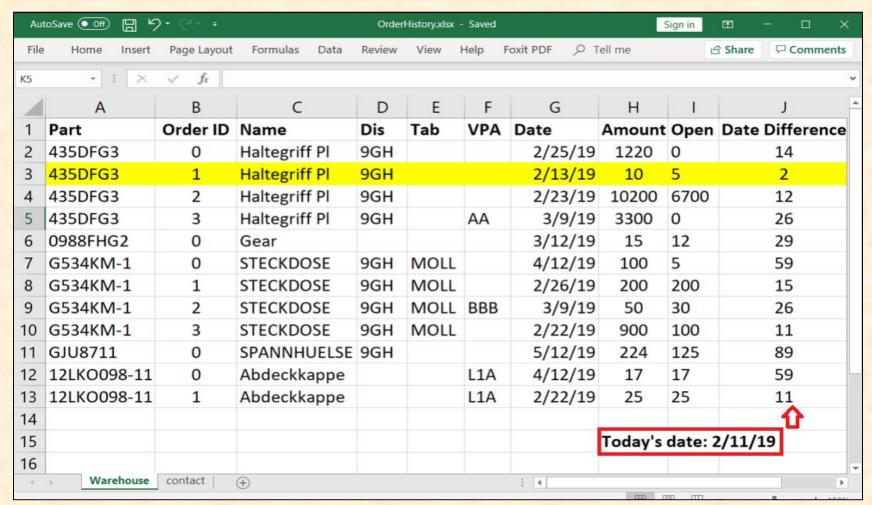# System Architecture

Receiving Email
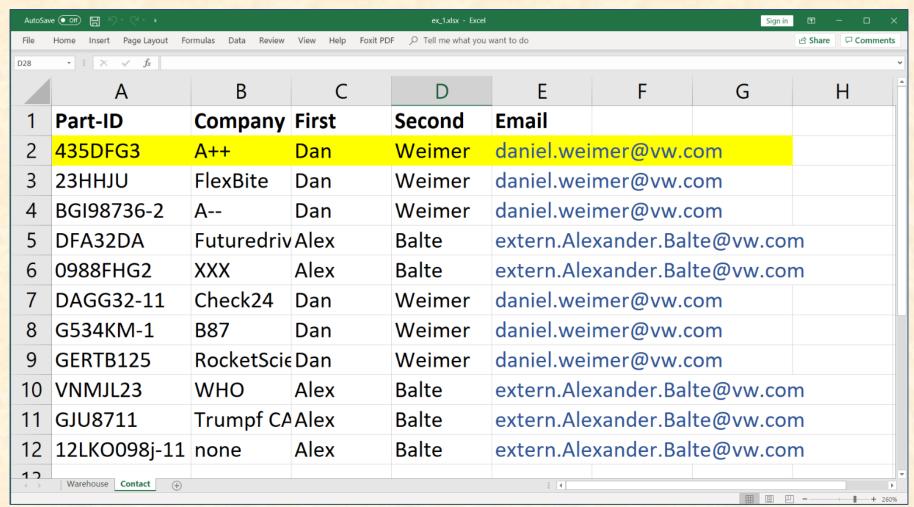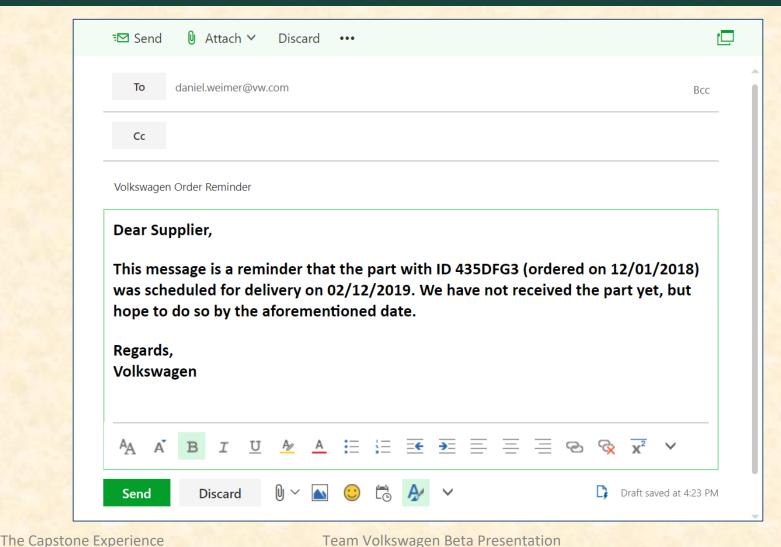
Parsing Email Information

Calculating Date Difference

Parsing for Contact Information

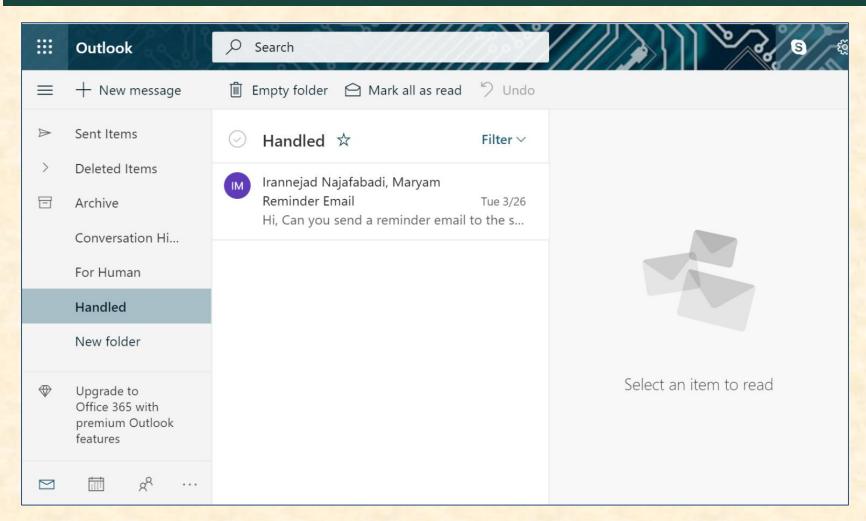|	A	B	C	D	E
1	Part-ID	Company	First	Second	Email
2	435DFG3	A++	Dan	Weimer	daniel.weimer@vw.com
3	23HHJU	FlexBite	Dan	Weimer	daniel.weimer@vw.com
4	BGI98736-2	A--	Dan	Weimer	daniel.weimer@vw.com
5	DFA32DA	Futuredriv	Alex	Balte	extern.Alexander.Balte@vw.com
6	0988FHG2	XXX	Alex	Balte	extern.Alexander.Balte@vw.com
7	DAGG32-11	Check24	Dan	Weimer	daniel.weimer@vw.com
8	G534KM-1	B87	Dan	Weimer	daniel.weimer@vw.com
9	GERTB125	RocketScie	Dan	Weimer	daniel.weimer@vw.com
10	VNMJL23	WHO	Alex	Balte	extern.Alexander.Balte@vw.com
11	GJU8711	Trumpf CA	Alex	Balte	extern.Alexander.Balte@vw.com
12	12LKO098j-11	none	Alex	Balte	extern.Alexander.Balte@vw.com

Automated Email Composition

Moving Original Email To The Appropriate Folder

What's left to do?

- Improve Accuracy of Machine Learning Model
- Continue to automate new tasks to generate data

Questions?

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