

Od 0 do 600 minut prihranka na leto

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Facts and Figures



AVL-AST d.o.o.

Advanced Simulation Technologies

Dev. support and customer services

Engineering Services

Customer project work

Instrumentation and Test Systems

E-Motor Test Systems & Drives

AVL DiTEST

Vehicle diagnostics



1996

Founded

104

Employees

10

Students

28

Years of Experience

1

Location: Maribor

3

Business Units; AST, PTE, ITS



47

Employees

5

Students

Pot avtomatizacije z umetno inteligenco v inženirskem centru

November 2023 - Ideje na listu

Z namenom **biti v koraku z novo tehnologijo** in z možnostmi UI (VJM*) v praksi, sem se odločil, da **avtomatiziram nekaj** svojih vsakodnevnih opravil.

Štartal sem pred 2 leti s **praktično ničelnim znanjem** o UI in programiranju. Uporabljal sem ChatGPT ter kasneje M365 Copilota.

Sedaj je moje znanje **programiranja še vedno skoraj ničelno**, a je moje **razumevanje uporabe UI** (predvsem VJM) v namene avtomatizacije ponavljajočih se opravil na nivoju, ki mi **omogoča ustvarjati omenjene časovne in finančne prihranke**.

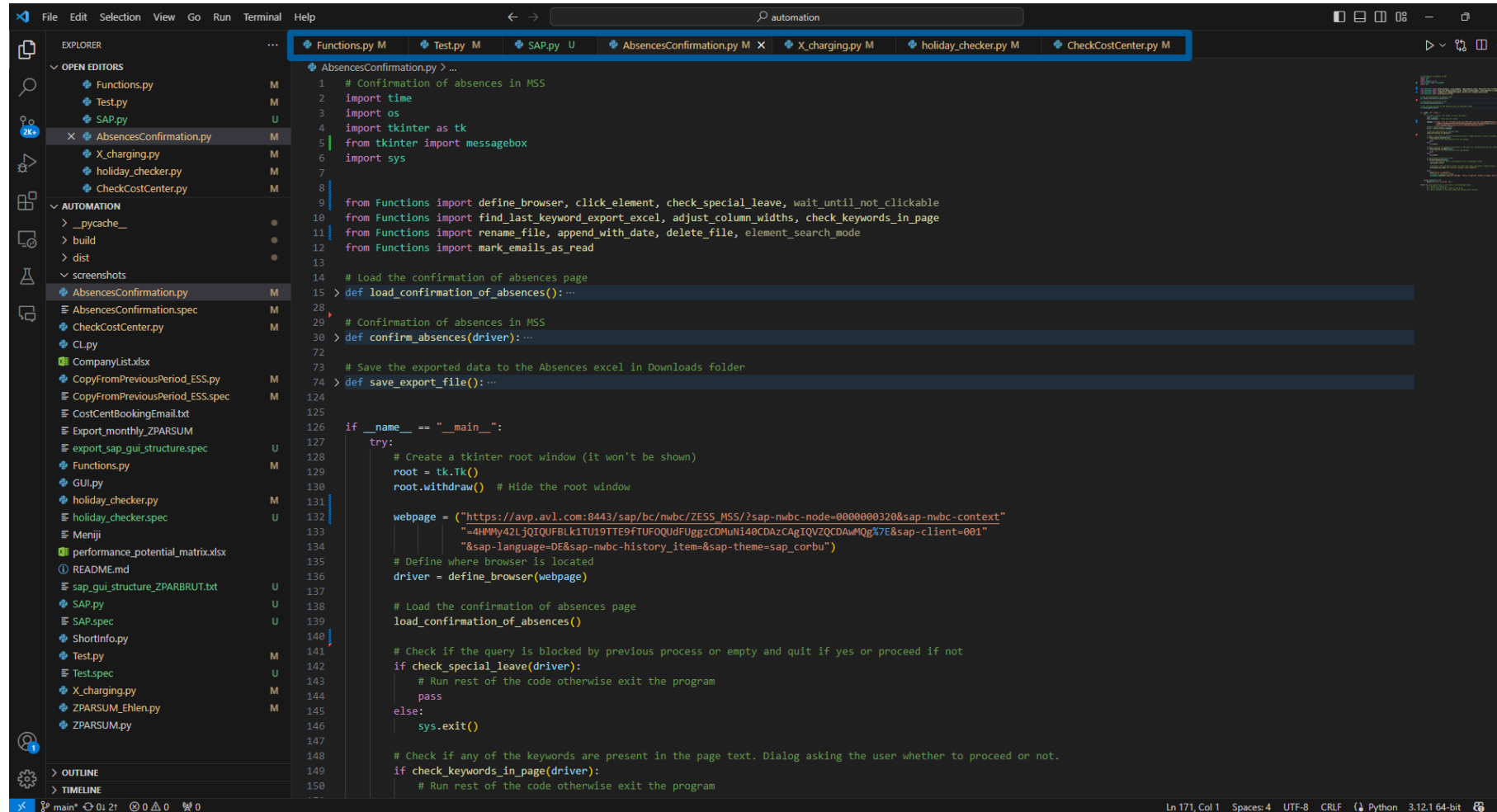
*VJM - Veliki Jezikovni Modeli (angl. LLM – Large Language Models)

Oktober 2025 - Ideje v excelu
(zeleno=realizirano)



SPARUM	Exchange old data for one period with new data from an excel which is prompted to be selected
	Archive current period with metadata
Absences approval	Automatic approval of standard absences
	If special leave, sick leave or social leave process is stopped until user checks the approvals and save the approval report
	Append the changes to an existing excel, delete the export file and upload to a sharepoint folder
CADQ-export-for-M-Kammerhofer	
Shortinfo	Access the data
	edit the excel and filter for needed columns and rows
	send it via email to assistant DA
TL info on booking of the teams	Provide the info of how much one booked in a month to the cost center to be able to check
	Check cost center booking and send to assistant, TL, ECM
	send the info to employees directly
BAB	Export status of cost center under/over absorption
	Check of BAB data: enter the sap, enter the cost center numbers, period etc.
	Show on one page my cost centers.
ESS-Booking	Book standard hours and lunch by prompting for start and end time.
	Daily automatic booking based on calendar entry?
X-charge to invoices	Fill out the invoicing tables
	Tools its data to be sent to the STL's - Ehlen
APS	Automatic document creation with metadata
	Automatic approval process start
	Automatic upload of documents
X-Charging for Mihael	Export data, arrange data in info column
Fill out the employees data on icae for Barbara from Shortinfo	
Dashboard for the Holiday and flextime status.	Possibility to send Export in info on holiday
	Enter the total ZA values for the DA group in INT2403_1001-D4_Zeitausgleich24
Check cost center booking	Automatic export and check of cost center related bookings
	Possibility to send to assistant, TLs, ECs, or employees directly
	Review dashboard
Booking button	press-to-enter-starting-time-rounded-to-next-15min-interval
	press-for-stop/break
	press-for-restart-after-break
	press-for-stop
	press-for-location
	Copy from previous period script implemented for daily transfer of booking entries
DA presentation	Automatic sum up the missing HSK per month and the reasons behind (e.g. holiday, sick leave etc.)
Flextime status and holiday status	Check the flextime and remind all employees on how will they use it
	Check the holiday status and remind employees about it.
Automatiziraj cekiranje opravljanja treningov v almi	
Automatizirano polnjenje modification letterja iz MSSa	Vprasa za ime, izpolni kar najde v MSSu
Onboarding	Take the data from kurzinfo or other source and fill the date, sap number etc and show
Onboarding/Automatic new employee	Automatically fillout the tdayou from from excel
	take the attachments from a sharepoint
	New employee emails to simona/david and assistant
Overview of X-charge costs	Script to export the data, compare the monthly sums and the monthly KPIs and present the changes per employee

Kako umetna inteligenca omogoča avtomatizacijo ponavljajočih se opravil



The screenshot shows a Python IDE with a file explorer on the left and a code editor on the right. The file explorer lists various files, including 'AbsencesConfirmation.py' and 'CheckCostCenter.py'. The code editor displays the content of 'AbsencesConfirmation.py', which is a Python script for automating SAP tasks. The script includes imports for 'time', 'os', 'tkinter', and 'sys', and defines functions for loading and saving data, and for checking keywords in the page text. The script is designed to be run as a standalone application.

```
1 # Confirmation of absences in MSS
2 import time
3 import os
4 import tkinter as tk
5 from tkinter import messagebox
6 import sys
7
8
9 from Functions import define_browser, click_element, check_special_leave, wait_until_not_clickable
10 from Functions import find_last_keyword_export_excel, adjust_column_widths, check_keywords_in_page
11 from Functions import rename_file, append_with_date, delete_file, element_search_mode
12 from Functions import mark_emails_as_read
13
14 # Load the confirmation of absences page
15 > def load_confirmation_of_absences(): ...
16
17
18
19 # Confirmation of absences in MSS
20 > def confirm_absences(driver): ...
21
22
23
24 # Save the exported data to the Absences excel in Downloads folder
25 > def save_export_file(): ...
26
27
28
29 if __name__ == "__main__":
30     try:
31         # Create a tkinter root window (it won't be shown)
32         root = tk.Tk()
33         root.withdraw() # Hide the root window
34
35         webpage = ("https://avp.avl.com:8443/sap/bc/nwbc/ZESS_MSS/?sap-nwbc-node=0000000320&sap-nwbc-context="
36                   "&4HMy42LjQlQUFBLk1TU19TTE9FTUFOQUdFUGgzCDMuNi40CDAzCAGIQVZQCDAwMQg%7E&sap-client=001"
37                   "&sap-language=DE&sap-nwbc-history_item=&sap-theme=sap_corbu")
38         # Define where browser is located
39         driver = define_browser(webpage)
40
41         # Load the confirmation of absences page
42         load_confirmation_of_absences()
43
44         # Check if the query is blocked by previous process or empty and quit if yes or proceed if not
45         if check_special_leave(driver):
46             # Run rest of the code otherwise exit the program
47             pass
48         else:
49             sys.exit()
50
51         # Check if any of the keywords are present in the page text. Dialog asking the user whether to proceed or not.
52         if check_keywords_in_page(driver):
53             # Run rest of the code otherwise exit the program
```

> 5

Skript tedensko uporabljam

≈ 50

Razvitih manjših funkcij

> 600

Minut prihranka na leto

Glavne ugotovitve

Prihranki časa in učinkovitost

Avtomatizacija z umetno inteligenco omogoča pomembne **prihranke časa** in bistveno izboljšuje **delovno učinkovitost** podjetij in posameznikov.

Ne čakajte na popolne rešitve z ogromnimi prihranki časa **ampak začnite** s skromini pričakovanji in vsakdanjimi problem.

Sprejemanje in spremljanje tehnologije

Sprejemanje in spremljanje novih tehnologij je ključno za družbeni in poslovni napredek ter inovacije **tako posameznika kot tudi organizacij**.

Vlaganje in učenje

Uspeh je odvisen od **vlaganja** v nove rešitve in **stalnega učenja** za prilagajanje hitrim tehnološkim spremembam.

Thank you



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