**JARVIS: AI-based personal assistant**

SE-C-6

Mohamad Abu Jafar; mohamadaj310@gmail.com

Lidor Feldman; lidorfeldman2121@gmail.com

Advisor: Dr. Karim Abu Affash

SCE – Shamoon College of Engineering, Be'er-Sheva

JARVIS (just a rather very intelligent system) is a high-level personal assistant developed to increase productivity through cleverly automating tasks on personal computers. Contrary to traditional voice assistants, JARVIS combines sophisticated context-aware automation, Natural Language Processing (NLP), and Optical Character Recognition (OCR) abilities to address intelligent reminders, autofill online forms, summarize documents, and automate tedious digital chores. Our literature review highlighted the present shortcomings in virtual assistants—voice recognition and rudimentary commands for the most part—underlining the need for end-to-end solutions that work in a specific user context. The ultimate, long-term aim of JARVIS is to fundamentally change the relationship between the user and technology, making it efficient and convenient, and allowing the user to allocate their focus elsewhere.

Keywords: AI, automation, NLP, OCR, productivity, personal assistant, task management.