INGESTION AND ANALYSIS OF DATA FROM WEARABLE DEVICES

Nikola Valchanov

Abstract. *Wearable devices have become common tools for continuous health monitoring. Although not always completely accurate, information collected by their sensors can be indicative for health risks and could be used as a trigger for medical checkups.*

This article examines the capabilities of the most common smart watch devices for tracking various health metrics, including heart rate, sleep patterns, oxygen saturation and blood pressure. It discusses how within the Android ecosystem such health data is made available by aggregator apps, how it can be ingested by 3rd party applications and later prepared for analysis.

Additionally, the article explores the applications of PowerBI as a platform for data visualization and distribution of health information dashboards.

Key words: Wearable devices, data ingestion, data visualization.

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