PARTICIPATING PROJECTS

HEALTH AND CARE CLUSTER

FACILITATED BY

RADICAL HEALTH FESTIVAL Helsinki
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AI in hospitals: are we ready for it?
Challenges and opportunities of AI deployment in hospitals

Sleep Disorders
A Global Health Challenge

High prevelance: 1 billion people between 30 – 69 years with **obstructive sleep apnoea** (OSA) worldwide

Problems:

- Time consuming technique

- Inconvenience and unnatural environment

- Cost and accessibility

- >85% of people with OSA not digasnosed

Untreated OSA is associated with **significant comorbidities**, such as cardiovascular disease, metabolic disorder, stroke, and Alzheimer's disease

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What if we could achieve remote and automated diagnosis of sleep disorders?

… and what if AI could assist in analyzing the collected sleep monitoring data?
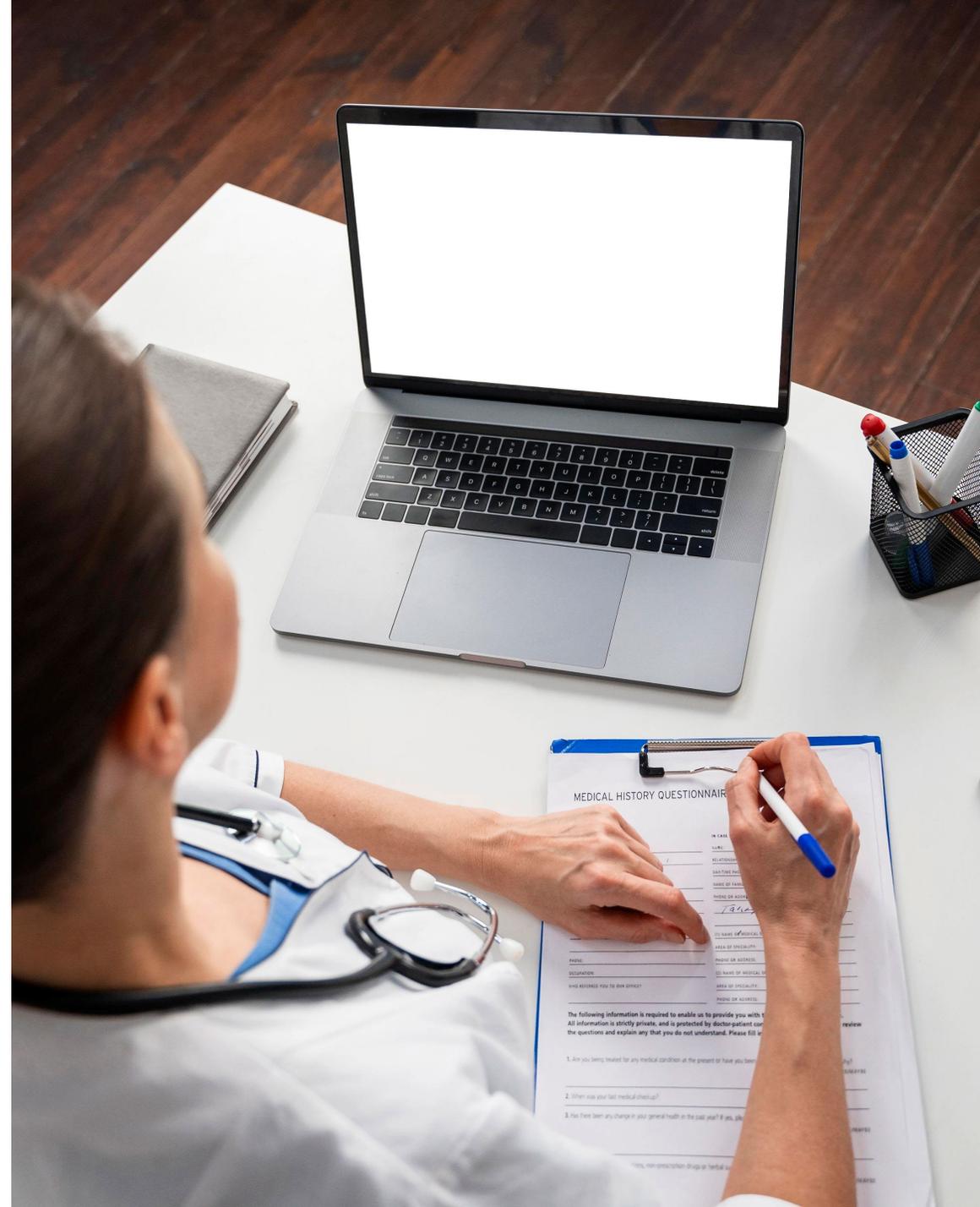
Odin

The ODIN solution for Enhancing sleep Disorders diagnosis

A robust and generalizable **AI model for automatic assessment of sleep disorder** and disorder staging detection.

AI model trained by federated learning:

- Leaveraging higher volumen and more diverse datasets

- Enabling cross-site training and validation

- Preserving privacy

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AI has the potential to **improve** sleep disorder **diagnosis**, customize **treatment** plans, and **reduce the workload** for sleep technicians

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