

Application of Artificial Intelligence for Early Detection and Monitoring of Alopecia through Mobile Health

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The thesis examines the application of artificial intelligence and mobile health to support the early detection and monitoring of alopecia. The research connects the medical context of different forms of hair loss with the capabilities of contemporary AI techniques, particularly image analysis and automated pattern recognition. The methodology includes a review and analysis of relevant approaches and technologies and their applicability in mobile health solutions. The thesis shows that integrating intelligent models into mobile systems can enable more accessible, consistent, and timely monitoring of the condition, with the potential to support clinical assessment and the further development of personalised digital health services.

Keywords: Artificial intelligence · Mobile health · Image analysis