

Evaluation of Productivity and Mobile Application Development Speed Using Cursor AI

Violeta Bojkovski

Graduation thesis · 2026

Mentor: Prof. Dr. Sime Arsenovski

The thesis empirically evaluates the impact of Cursor AI on productivity and development speed in mobile application development. The research is designed as a controlled comparison of development tasks, using identical scenarios and clearly defined measurement criteria, while analysing development time, output quality, and the way prompts are formulated. The methodology also includes prompt categorisation to examine whether structured instructions produce more consistent results than an ad hoc approach. The findings provide a concrete assessment of where AI assistance genuinely accelerates development and where additional human review is required. The thesis defines productivity not only as the speed of code generation, but also as the relationship between time, accuracy, and the usability of the resulting solution.

Keywords: Cursor AI · Mobile development · Productivity