

Vnukova N. Application of Artificial Intelligence Tools in Project Management in Software Development / Nataliya Vnukova, Nataliya Opeshko, Daria Davydenko, Vasyl Nabochenko, Vasyl Pyvovarov // Proceedings of the Workshop on Scientific and Practical Issues of Cybersecurity and Information Technology – CEUR Workshop Proceedings. V International Scientific and Practical Conference “Information security and information technology” (ISecIT 2025). Lutsk, Ukraine (09–11 June, 2025). P. 22–32.

**Abstract** The article explores the impact of applying artificial intelligence (AI) tools in project management during software development. It analyzes modern AI instruments used at various stages of the project life cycle: initiation, planning, execution, monitoring, and closure. A SWOT analysis is employed to identify the strengths, weaknesses, threats, and opportunities associated with the use of AI in project management. Using the Decision Making Helper decision support software, a priority scenario for implementing AI in the field of project management in software development has been determined.

**Keywords** Artificial intelligence, information security, project management, software, Decision Making Helper.<sup>1</sup>