

Database	Search query	Filter	No of Results obtained
IEEE Xplore	("All Metadata":Machine learning AND Software AND (ML OR AI OR DL OR Neural OR intelligence OR learning) AND (scal* OR exten* OR adapt* OR maintain* OR evol* OR flex*) AND (system OR architect* OR design OR build OR application OR engineering OR test) AND (data OR algorithm OR debt OR pattern OR code))	2014 -2022 Search in (title , keyword & abstract)	3719 results 6 selected for the final review
Scopus	TITLE-ABS-KEY (machine AND learning AND software AND (ml OR ai OR dl OR neural OR intelligence OR learning) AND (scal* OR exten* OR adapt* OR maintain* OR evol* OR flex*) AND (system OR architect* OR design OR build OR application OR engineering OR test) AND (data OR algorithm OR debt OR pattern OR code))	Year > 2013 Langage English (title , abstract and keyword)	5627 results Only the first 2000 results sorted by relevance was available for review because of limitation in Scopus 13 selected for the final review
Web of Science	TS=(Machine learning AND Software AND (ML OR AI OR DL OR Neural OR intelligence OR learning) AND (scal* OR exten* OR adapt* OR maintain* OR evol* OR flex*) AND (system OR architect* OR design OR build OR application OR engineering OR test) AND (data OR algorithm OR debt OR pattern OR code))	2014-2022 English (Title, abstract, author keywords and keyword plus)	1774 result 14 selected for the final review
ACM	Machine learning AND Software AND (ML OR AI OR DL OR Neural OR intelligence OR learning) AND (scal* OR exten* OR adapt* OR maintain* OR evol* OR flex*) AND (system OR architect* OR design OR build OR application OR engineering OR test) AND (data OR algorithm OR debt OR pattern OR code)	2014 - 2022 (Abstract only)	807 Results 11 selected for the final review
Google Scholar	design system engineering architect* application algorithm pattern* code data build test scal* OR maintain* OR adapt* OR evol* OR exten* OR flex* OR debt OR AI OR ML OR DL OR Neural OR intelligence OR learning "machine learning software"	2014 -2022 Search anywhere in the article	1690 results Only the first 1000 results sorted by relevance was available for review because of limitation in Google Scholar 12 selected for the final review