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Laboratorio CINI ITeM – Edificio Centri Comuni @ Complesso Universitario Monte S. Angelo
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Exploiting machine learning techniques in software development processes

Commonly used software systems integrate more often machine learning applications. For having an evidence of this, we can just consider few examples of software systems used in our everyday life. Among them, we may take into account the voice recognition and natural language systems that are present in almost all mobile devices released in recent years, or the recommendation systems exploited by Amazon to suggest the research contents on the basis of the type of users. Machine learning techniques are also implemented in critical software systems, such as the Advanced Driver Assistance Systems (ADAS) or the information security systems. In software engineering, machine learning techniques are more and more exploited for the quality improvement of the software development processes, mainly because their application allows to increase the efficiency of such processes. More specifically, these techniques allow to fully or partially automate some of the time consuming and error prone activities that usually require a great manual effort. In software engineering, machine learning techniques are more and more exploited for the quality improvement of the software development processes, mainly because their application allows to increase the efficiency of such processes. More specifically, these techniques allow to fully or partially automate some of the time consuming and error prone activities that usually require a great manual effort.

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