Software Development- Recognizing the Role of Data Science
Type: Research Oriented
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Abstract:
As observed over time, for enhancing the business growth, data science helps in organizing and analysing data produced by the customers during the software usage period, and then it builds data module to support decision-making in the next business or research stage. Data science as an interdisciplinary provides a collaboration with experts in different fields, such as mathematics, statistics, information science and computer science. And it includes the subdomains of machine learning, classification, cluster analysis, data mining, databases, and visualization. Therefore, data science needs many experts from different fields to work together to solve problems with data, extract information from the data pattern and transform it into an industry insight for further use. We would like to describe how a data scientist works in the software lifecycle with a software engineer. If we are successful in doing so, we would like to define and set up a work model for software engineers, data scientists and data engineers. This model will show how they work together to design and develop the software based on the data analytics. From our readings till date we want to focus on few key roles of Data Science involved for optimising developing or developed software. Firstly, we’ll talk about detecting code smell using mining techniques to improve the quality of codes for any project that is often ignored by developer unknowingly or in hurry. Secondly, we want to focus on interface that a developer reuses is best fit or not and lastly, we want to relate actionable test case generation by Mining data from Mobile applications.
References:


[8] Ryan Swanstrom, “data scientists, data engineers, software engineers: the difference according to LinkedIn”,
