SAAD DAH LAB UNIVERSITY

Faculty of science

In Computer Science Department

DOCTORAL THESIS

Speciality: Computer and Data Sciences

PROPOSITION OF SCALABLE DATA STRUCTURE FOR THE OPTIMIZATION
OF RECOMMENDED QUERIES

Through

MUSTAPHA CHABA MOUNA

Before the jury composed of:

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**The thesis will be publicly defended on May 11, 2023, at 10h am, in
the conference room at the Pavilion 8**