M.S. by Research in CMInDS

The Center for Machine Intelligence and Data Science (CMInDS) at IIT Bombay is aimed at advancing the fields of Artificial Intelligence and Data Science, as well as their application domain through cutting-edge research and specialized education programs. More than seventy-five faculty members from fifteen departments are associated with the Center, with twenty-five of them actively involved in the direct functioning of the center.

The M.S by Research program is designed for students who wish to explore a career in R&D, and can serve as a first step either towards a Ph.D. or towards a high-end R&D oriented career in industry. The duration of the program is flexible ranging from a minimum of 1.5 years to a maximum of 3 years. Upon graduation, a student will be awarded a degree in *MS by Research in Data Science and Artificial Intelligence*.

Admission Criteria

General eligibility criterion for admission is as per section A.5.1 of IIT Bombay’s admissions information brochure:

Candidates with First class or 60% (55% marks for SC/ST) marks in:

(i). B.E./B.Tech./AMIE or equivalent in engineering
(ii). M.Sc. or equivalent in any science discipline
(iii). MCA (with Physics & Mathematics at B.Sc. level) or equivalent

A valid GATE score (in any of AE, BM, BT, CE, CH, CS, CY, EC, EE, ES, IN, MA, ME, MN, MT, PH, PI, ST, XE, and XL papers) is required. A GATE cut-off score for the admissions will be posted by the Institute on the IIT Bombay Admissions website.

B.Tech degree holders from IITs with CGPA/CPI above 8.00 (on a 10.0 scale), may be admitted without GATE score for a limited number of seats. GATE score requirement is exempted for commissioned officers of the armed forces.

CMInDS may additionally conduct a written test and/or an interview for all applicants to shortlist candidates to be selected. The syllabus can be found in the Admissions section of the CMInDS website: [www.minds.iitb.ac.in](http://www.minds.iitb.ac.in)

Graduation requirements

The Master’s degree requires:

- Completion of five breadth courses. The five breadth areas are:
  a. Probability and Statistics
  b. Computing
  c. Optimization
  d. AI/ML Core
  e. Linear Algebra
- Completion of a 4-credit seminar and a communication skills course.
- Completion of a 6 credit MS R&D
- Completion of a MS Thesis. Note the Thesis does not have a credit attached to it.

Further details about the program can be found in the Academics section of the CMInDS website: [www.minds.iitb.ac.in](http://www.minds.iitb.ac.in)