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**A UNIFICATION OF GENERALIZED  
MITTAG-LEFFLER FUNCTIONS, FAMILY  
OF BESSEL FUNCTION AND THEIR  
 $q$ -ANALOGUES**

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A THESIS SUBMITTED TO



**THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA**

FOR THE AWARD OF THE DEGREE OF

**DOCTOR OF PHILOSOPHY**

IN

**MATHEMATICS**

BY

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UNDER THE GUIDANCE OF

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