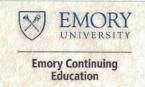


EMORY UNIVERSITY



This is to certify that

DEEPALI SHARMA

has successfully completed all requirements to achieve the

BIG DATA & DATA ANALYTICS CERTIFICATE

on this 1st December 2018

Mahmoud Ghavi, Ph.D. President/CEO

Consort Institute

Katharine M. Foster

Senior Director

Emory Continuing Education