

MANISH U. KURSE, Ph.D.

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Work Experience	<p>Data Scientist, Google Inc., Mountain View, CA 2015-present</p> <ul style="list-style-type: none">• Developing data driven products to grow the Google for Work Business. <p>Senior R&D Engineer, Boston Scientific Corp., Valencia, CA 2012-2015</p> <ul style="list-style-type: none">• Developed the biomedical strategy to understand tissue-device interactions, performed engineering analysis, drafted technical reports, and participated in conversations with the US Food and Drug Administration (FDA) that led to Boston Scientific's first MRI conditional neuromodulation system in the US, which was critical for Boston Scientific to meet competition in the market.• Led engineering and preclinical studies to successfully evaluate safety of neuromodulation systems. The strategy developed was used across multiple projects. <p>Research Assistant, University of Southern California, Los Angeles, CA 2007-2012</p> <ul style="list-style-type: none">• Designed experiments, gathered multi-sensor data by testing of human cadaveric fingers.• Demonstrated that biomechanical models generated using symbolic regression implemented in Eureqa were more accurate, robust to noise and parsimonious compared to other multivariable regression models (linear, polynomial, nonlinear).• Developed a novel non-linear finite element simulation environment to model the mechanics of elastic tendon networks.• Implemented stochastic hill climbing optimization on the USC Linux cluster with Matlab parallel computing toolboxes to infer models of the human finger from experimental data. <p>Intern Research Consultant, Deallus Inc., Los Angeles, CA 2011</p> <ul style="list-style-type: none">• Conducted competitive intelligence research, presented findings in new drug/diagnostic development and commercialization.	
Skill Summary	<ul style="list-style-type: none">• Project planning, technical leadership, cross-functional program management• Machine learning, data analysis, statistics, mathematical modeling, optimization• Communication of results to business leaders, regulatory agencies and the research community• Programming: Python, SQL, Matlab, C/C++	
Education	<p>University of Southern California, Los Angeles, CA 2012 Ph.D., M.S., Biomedical Engineering, GPA: 3.96/4.0</p> <p>Cornell University, Ithaca, NY 2007 Graduate course work, Mechanical Engineering, GPA: 4.03/4.0</p> <p>Indian Institute of Technology (IIT) Madras, Chennai, India 2006 Bachelor of Technology, Mechanical Engineering, GPA: 9.08/10.0</p>	
Honors/Awards	<p>Knowledge Driven Product Development Award, Boston Scientific 2013</p> <p>Checkered Flag Award, Boston Scientific (awarded for going above and beyond to make a difference to a program supporting company goals) 2012, 2013</p> <p>Meaningful Innovation award, Boston Scientific 2013</p> <p>Olin Fellowship for graduate study, Cornell University 2006</p> <p>Indian National Chemistry Olympiad, among top 30 of 30000 participants 2002</p>	