# MANISH U. KURSE, Ph.D.

| | | |
|---|---|---|
| **Contact** | Sunnyvale, CA | [http://manishkurse.com](http://manishkurse.com) |
| | 607-229-2785 | linkedin.com/in/manishkurse |
| | manish.kurse@gmail.com | |

**Work Experience**

***Data Scientist,*** *Google Inc., Mountain View, CA* — *2015-present*
- Developed a Machine Learning platform that predicts likelihood of free trial customers subscribing to G Suite, enabling ROI optimization of Google Cloud marketing campaigns.

***Senior R&D Engineer,*** *Boston Scientific Corp., Valencia, CA* — *2012-2015*
- 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.

***Research Assistant,*** *University of Southern California, Los Angeles, CA* — *2007-2012*
- Designed experiments, gathered multi-sensor data by testing of human cadaveric fingers.
- Demonstrated that biomechanical models inferred from data using symbolic regression 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 interacting with irregular bone geometries.
- 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.

***Intern Research Consultant,*** *Deallus Inc., Los Angeles, CA* — *2011*
- Conducted competitive intelligence research, presented findings to help clients in new drug/diagnostic development and commercialization.

**Skill Summary**
- Project planning, technical leadership, cross-functional program management
- Machine learning, data analysis, mathematical modeling, statistics, optimization
- Communication of results to business leaders, regulatory agencies and the research community
- Programming: Python, SQL, Matlab

**Education**

***University of Southern California***, Los Angeles, CA — *2012*
Ph.D., M.S., Biomedical Engineering, GPA: 3.96/4.0

***Cornell University,*** Ithaca, NY — *2007*
Graduate course work, Mechanical Engineering, GPA: 4.03/4.0

***Indian Institute of Technology (IIT) Madras***, Chennai, India — *2006*
Bachelor of Technology, Mechanical Engineering, GPA: 9.08/10.0

**Honors/ Awards**

| | |
|---|---|
| Three Peer Bonuses, *Google* | *2016* |
| Knowledge Driven Product Development Award, *Boston Scientific* | *2013* |
| Meaningful Innovation award, *Boston Scientific* | *2013* |
| Olin Fellowship for graduate study, *Cornell University* | *2006* |
| Indian National Chemistry Olympiad, among top 30 of 30000 participants | *2002* |