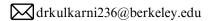
## Deva Kulkarni







## **Education**

#### Master of Information & Data Science

University of California, Berkeley GPA: 3.97/4.0 | Jan 2021 - Aug 2023

## Master of Science - Mechanical Engineering

University of Illinois, Urbana-Champaign GPA: 3.95/4.0 | Aug 2015 - Apr 2017

# **Bachelor of Technology - Mechanical Engineering**

Minor - Electrical Engineering

Indian Institute of Technology, Bombay

GPA: 9.16/10.0 | Aug 2011 - Apr 2015

## **Skills**

Python | R | SQL | Git | AWS | GCP | PyTorch | Tensorflow | OpenCV | Flask | Docker | Spark | Hadoop | Tableau

## Coursework

- Natural Language Processing with Deep Learning
- Computer Vision
- Experiments and Causal Inference
- · Applied Machine Learning
- · Statistics for Data Science
- Fundamentals of Data Engineering
- · Research Design
- Programming for Data Science

## **Publications**

- Investigation of a novel coolant delivery system for titanium machining - Journal of Manufacturing Science and Engineering, 2018 | <u>Link</u>
- Fiber optic tapered coupler (for intraocular illumination during eye surgery) - United States Patent, US11614587B2, 2023 | <u>Link</u>

## Other Info

- Languages: English, Hindi, Marathi
- National level medalist in karate

## **Projects**

### WindSmart: Failure prediction for offshore wind turbines

- I'm lost, I'm lost, I'm lost, I'm lost Took a while to get around I think I'll come around. I'm found, I'm found, I'm found Took a while to come around I think I've got it all worked out Took a while to get around.
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## **Industry Experience**

#### Medical Instrument Development Labs - SF Bay Area, CA

Aug 2017 - Dec 2022

Sr. Research & Development Engineer

- **Research Team Lead:** Led a team of 5 engineers to explore new technologies and innovations for devices used in ophthalmic surgery.
- **Project Management:** Managed high impact projects in collaboration with crossfunctional teams: Activities include user research, end-to-end product and process design, interfacing with external suppliers, maintaining regulatory documentation, and transferring products to production.

## **Key Achievements:**

- Spearheaded design and prototyping activities to showcase future device concepts to Bausch and Lomb's global leadership, securing endorsement for groundbreaking projects and solidifying long-term strategic partnership.
- Invented a new technology for the construction of a device used for intraocular illumination during surgery, increasing the performance by 400%. (patent granted)
- Innovated design changes to outperform prevailing market standards, surpassing the state-of-the-art cut rate for vitrectomy surgery. Developed manufacturing procedures, trained assemblers and equipment technicians.