

# Deva Kulkarni

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🐙 [github.com/drkulkarni236](https://github.com/drkulkarni236)

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## 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 | [Link](#)
- **Fiber optic tapered coupler** (for intraocular illumination during eye surgery) - United States Patent, US11614587B2, 2023 | [Link](#)

## Other Info

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

## Projects

### WindSmart: Failure prediction for offshore wind turbines

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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 cross-functional 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.