

# Sachin Salim

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## EDUCATION

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**University of Michigan**, Ann Arbor, MI

Masters - Data Science and Machine Learning

Aug 2022 - Dec 2023

Department of Electrical Engineering and Computer Science

**Grade: 4.00/4.00**

Graduate Certificate in Computational Neuroscience

Jan 2023 - Dec 2023

Michigan Institute for Computational Discovery and Engineering

**Indian Institute of Technology Kanpur**, India

July 2014 - May 2018

Bachelor of Technology - Computer Science and Engineering

## RESEARCH EXPERIENCE

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**Draeos Lab**, University of Michigan

May 2023 – Present

Research Assistant | Mentor: Dr. Anne Draelos

Topic: Real-time behavioral analysis on octopus arm using transfer learning and stable streaming dimension reduction

**Cortical Neural Prosthetics Lab**, University of Michigan

Jan 2023 – Apr 2023

Research Assistant | Mentors: Dr. Cynthia Chestek, Joseph Costello

Topic: Predicting simulated prosthetic finger kinematics in non-human primates using Reinforcement learning

**Movement Control Lab**, Indian Institute of Science, Bengaluru, India

Oct 2020 - Dec 2020

Research Intern | Mentors: Dr. Aditya Murthy, Dr. Varsha Vasudevan

Topic: Role of internal fast feedback controls in human hand movement using inter-trial variability across different amplitudes

**Computational Economics Lab**, Indian Institute of Technology Kanpur, India

Jan 2018 - Apr 2018

Undergraduate Researcher | Mentor: Dr. Swaprava Nath

Topic: Quantifying the social welfare by simulating a group of passengers having to choose between sharing ride and riding solo

## PROFESSIONAL EXPERIENCE

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**Skellam AI**, Bengaluru, India

Aug 2021 - Aug 2022

Applied Machine Learning Engineer

**Adobe Inc.**, Noida / Bengaluru, India

June 2018 - July 2021

Software Development Engineer – 2

**Samsung R & D**, Bengaluru, India

May 2017 - July 2017

Software Development Intern

## FELLOWSHIPS & ACHIEVEMENTS

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**KVPY - Young Scientist Incentive Fellowship**, Dept of Science and Technology, Govt of India, 2013-2014

Qualified to national stage in **Maths, Physics and Chemistry Olympiads** conducted by Govt of India, 2014

Secured Rank 583 among 1.3 Million candidates in JEE Main - Indian Engineering Entrance Exam, 2014

## TEACHING

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**EECS 504: Graduate Computer Vision**, Robotics, University of Michigan

Aug 2023 – Present

Graduate Student Instructor | Primary Instructor: Dr. Jason Corso

**EECS 442: Computer Vision**, Computer Science & Engineering, University of Michigan

Jan 2023 – Apr 2023

Graduate Student Instructor | Primary Instructor: Dr. David Fouhey

## COURSEWORK

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Grad Courses: Neural Engineering (A+), Computer Vision (A+), Matrix Methods for ML, DS (A+), Data Manipulation (A+)

Coursera: Computational Neuroscience (U of Washington), Visualizing Data with Python (U of Michigan)

## COURSE PROJECTS

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Brain Tumor Segmentation using an ensemble of 3D U-Nets  
Parkinson's Disease Progression Prediction  
Seizure Detection and Closed-Loop Control  
Breaking a Visual CAPTCHA  
Quora Question Duplication

*Oct 2022 - Dec 2022*  
*Feb 2023 - Apr 2023*  
*Mar 2023 - Apr 2023*  
*Jan 2017 - Apr 2017*  
*Feb 2018 - Apr 2018*

## OUTREACH ACTIVITIES

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Volunteer, **BrainsRule!** - Outreach project to get middle schoolers excited about brain  
Member, **Neural Networks Journal Club**  
Member, **Translational Neural Engineering Journal Club**

*Mar 2023*  
*Jan 2023 - Present*  
*Jan 2023 - Present*

## SKILLS

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Languages: Python, C/C++, Java, JavaScript, MATLAB, SQL, Julia  
Technologies: PyTorch, TensorFlow, Jupyter, AWS, Git/GitHub, Simulink, LaTeX

## REFERENCES

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**Anne Draelos** (University of Michigan)  
**Cynthia Chestek** (University of Michigan)  
**Swaprava Nath** (IIT Bombay/Kanpur)  
**David Fouhey** (NYU/University of Michigan)

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