

Swasti Khurana

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in [LinkedIn](#)

🌐 [Website](#)

📝 [Medium](#)

🐙 [Github](#)

EDUCATION

IIIT Vadodara

B.Tech in Information Technology

CPI: 8.83/10

Gandhinagar, India

Graduation: 07/22

Maharaja Sawai Man Singh Vidyalaya

Higher Secondary School (94.4%)

Jaipur, India

Graduation: 03/18

SKILLS

Programming Languages

Python, R, SQL, C/C++, Java, Javascript

Tools

LaTeX, Git, Colab, Jupyter, Visual Studio Code

Softwares

Tableau, Wireshark, HashSuite, Nmap, Selenium, Archimate, MySQL

Framework & Libraries

Numpy, Pandas, ROS, PyTorch, Scikit Learn, Matplotlib, Django

PUBLICATIONS

Infographics Wizard: Flexible Infographics Authoring and Design Exploration

EuroVis 2022

o **Authors:** Tyagi, Anjul and Zhao, Jian and Patel, Pushkar and **Khurana, Swasti** and Mueller, Klaus

o **Journal:** Computer Graphics Forum

o **DOI:** 10.1111/cgf.14527

o **Link to publication:** <https://diglib.eg.org/handle/10.1111/cgf14527>

An Optimization Ontology for Goal Modelling Frameworks

IDAMS workshop (2022)

o **Authors:** [Novarun Deb](#), **Swasti Khurana**, Krishna Gaur, Raghu Raj Sodani, Akshat Dobriyal, Anuj Pillai, [Sajib Mistry](#) and [Aditya Ghose](#)

o **Conference:** Enterprise Design, Operations, and Computing (EDOC)

o **Workshop:** EDOC Workshop - Intelligent Digital Architecture, Methods, and Services for Industry 4.0 and Society 5.0

EXPERIENCE

Multi-Agent Robotic Motion Lab, National University of Singapore (NUS)

Singapore

Research Assistant with Prof. Guillaume Sartoretti

January 2022 - Present

o Current topic of research is Communications Learning in Multi-agent Reinforcement Learning

Algorithms to Architecture Lab, IIIT Delhi

Delhi, India

Research intern with Prof. Sumit Darak

May 2021 - July 2021

o Multi-player multi-arm bandit algorithms.

o Aggregator algorithm for the above mentioned algorithms.

Clique and WTM Ahmedabad ([Link to Certificate](#))

Ahmedabad, India

Exploratory Data Analysis Research Intern

December 2020 - January 2021

o Mentors guided to help learn and explore the field of Exploratory Data analysis with Python and Tableau, published a blog on Medium ([link here](#)).

Clique ([Link to Certificate](#))

Ahmedabad, India

Reinforcement Learning Research Intern

June 2020 - July 2020

o Worked with mentors to learn and explore the field of Reinforcement Learning, published two blogs on Medium ([link here](#)).

PROJECTS

Healthcare System

April 2020 - Present

o Build a portal as an attempt to connect the various healthcare services at one point - medicines, doctors, lab tests, and blood banks.

o Responsibilities consisted of building models and views in Django, learning and working on connecting APIs, etc.

Learning Linear Algebra through new Lights

July 2020 - December 2020

- o Using the concept of Linear Algebra formulated a game (in React) similar to, yet different from the traditional Lights-out.
- o It also discusses rings and how they are related to solving graphs in Lights-out.

RELEVANT COURSEWORK AND CERTIFICATION COURSES

Relevant Coursework:

- o Computer Programming and Problem Solving
- o Linear Algebra and Matrices
- o Discrete Mathematics
- o Introduction to Data Structures
- o Design and Analysis of Algorithms
- o Probability and Statistics
- o Topics in Deep Learning
- o Information Retrieval
- o Information Theory Inference and Learning

Certification Courses:

- o AWS Machine Learning Foundations ([Link to Certificate](#))
- o Intro to Machine Learning ([Link to Certificate](#))
- o NVIDIA DLI Fundamentals of Deep Learning ([Link to Certificate](#))
- o Cryptography: Coursera Certification ([Link to Certificate](#))
- o Usable Security: Coursera Certification ([Link to Certificate](#))
- o Ethical Hacking ([Link to Certificate](#))
- o Cyber Security Technologies ([Link to Certificate](#))

WRITINGS

Blogs:

- o Exploitation and Exploration in RL ([Link](#))
- o TD-Gammon Algorithm ([Link](#))
- o Super Store Data Analytics and Visualization ([Link](#))

Chapters:

- o Public key cryptography ([Link](#))

ACHIEVEMENTS AND EXTRA-CURRICULAR

Honors and Awards:

- o GHC (Grace Hopper Celebration) 2021 Student Scholarship recipient by AnitaB.org ([Link to Certificate](#))
- o Secured 4th position in AWS DeepRacer Women's League India 2021. ([Link to Certificate](#))
- o Reviewer for a paper in IROS 2022.
- o Best Idea in HackIIITV, 2018 ([Link to Certificate](#))
- o Winner of Hired event in Cerebro 2021 - The technical festival of IIITV
- o Secured third position in Travel photography in Synapse 2021, by DAIICT ([Link to Certificate](#))
- o Silver medalist in 3000m race at Inter IIIT Sports meet, 2020 ([Link to Certificate](#))

Extra-Curricular:

- o Weekly volunteer at Sikh Temple (January 2022 - Present)
- o Participant in Letters to a Pre-Scientist (science outreach) and awarded for Exceptionally Engaging Letters ([Link to Certificate](#))
- o Basketball Silver medal in Inter-College Games (ICG) at NUS.
- o Mentor of Obscura - Photography club of IIITV
- o Completed 30 days of Google Cloud Program ([Link to Certificate](#))
- o Member of core committee with Clique for 4th edition
- o Problem-setter and member of Enigma- Mathematics Club of IIITV
- o Core member of MOD5 - Dance club of IIITV
- o Core member of Masquerade- Drama club of IIITV
- o Participant of Carrom, TT and Athletics in Inter IIIT Sports meet, 2020
- o Event organizer of Penumbra in Institute's Technical Fest (Cerebro - 2019)