Swasti Khurana

in https://www.linkedin.com/in/swasti-khurana-20171316b/   ✉ swastikhurana0800@gmail.com
🌐 https://medium.com/@swastikhurana0800   🐙 https://github.com/SwastiKh/

EDUCATION

IIIT Vadodara   **Gandhinagar, India**
B.Tech in Information Technology   *July 2022*
CPI: 8.83/10

Maharaja Sawai Man Singh Vidyalaya   **Jaipur, India**
Higher Secondary School (94.4%)   *March 2018*

SKILLS

Computer 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
Soft Skills	Leadership, Time Management, Teamwork, Interpersonal skills, Persistence

PUBLICATIONS

Infographics Wizard: Flexible Infographics Authoring and Design Exploration   *EuroVis 2022*
- Worked on a research paper publication with a PhD student, Anjul Tyagi and his supervisor (Prof Klaus Mueller) in Stony Brook University. The paper is based on Computer Vision and Visualization, specifically Infographics generation.
- Responsibilities include creating an interface, testing models, exploring codes from papers to reuse, writing a section etc.

Paper submission in IEEE Transactions in Service Computing Journal   *Submitted for Review*
- Collaborated with Prof. Aditya Ghose (University of Wollongong), Dr. Novarun Deb (Indian Institute of Information Technology, Vadodara), and Dr. Sajib Mistry (Curtin University) for a novel service area modeled for a Crowdsourced IoT Service market.

EXPERIENCE

Multi-Agent Robotic Motion Lab, National University of Singapore (NUS)   **Singapore**
Research intern with Prof. Guillaume Sartoretti   *January 2022 - Present*
- Communications Learning in Multi-agent Reinforcement Learning
- Developing algorithms on Pytorch framework

Algorithms to Architecture Lab, IIIT Delhi   **Delhi, India**
Research intern with Prof. Sumit Darak   *May 2021 - July 2021*
- Multi-player multi-arm bandit algorithms.
- 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*
- Mentors Dhwani Mehta and Sahaj Vaidya guided to help learn and explore the field of Exploratory Data analysis with Python and Tableau, published a blog on Medium.

Clique (Link to Certificate)   **Ahmedabad, India**
Reinforcement Learning Research Intern   *June 2020 - July 2020*
- Worked with Dhwani Mehta and Bansi Gajera as mentors to learn and explore the field of Reinforcement Learning, published two blogs on Medium.

PROJECTS

Healthcare System   *April 2020 - Present*
- Build models and views in Django.
- Learn and work on connecting APIs.

Learning Linear Algebra through new Lights   *July 2020 - December 2020*

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

CERTIFICATION COURSES

AWS Machine Learning Foundations (Link to Certificate) *Udacity*
- Learn the fundamentals of machine learning and object-oriented programming best practices
- Learn computer vision with AWS DeepLens, reinforcement learning with AWS DeepRacer, and generative AI with AWS Deep-Composer.

Intro to Machine Learning (Link to Certificate) *Kaggle*
- Learn core ideas in machine learning, and build our first models.

NVIDIA DLI Fundamentals of Deep Learning (Link to Certificate) *NVIDIA DLI*
- Learn the fundamental techniques and tools with common deep learning data types and model architectures. Explore concepts of data augmentation and transfer learning.

Cryptography: Coursera Certification (Link to Certificate) *University of Maryland on Coursera*
- Introduction to modern cryptography, with an eye toward practical applications.

Usable Security: Coursera Certification (Link to Certificate) *University of Maryland on Coursera*
- Focus on how to design and build secure systems with a human-centric focus. It looked at basic principles of human-computer interaction, and how to apply these insights to the design of secure systems.

Ethical Hacking (Link to Certificate) *Internshala Trainings*
- Basics of Information Security, Computer Networking, Web Development, Information Gathering and VAPT of vulnerabilities, Documenting and Reporting Vulnerabilities.

Cyber Security Technologies (Link to Certificate) *Career Nourishers*
- OS Security, Password Cracking, Identity Theft, Malware, Worms, Key Loggers, Spyware, DDOS, Ransomware, DNS Filtering, SQL Injection, Cross Site Scripting, Firewalls, IDS & IPS, SIEM, Incident Response Plan, Cyber Forensic & Digital Evidence.

WRITINGS

Blogs:
- Exploitation and Exploration in RL (Link)
- TD-Gammon Algorithm (Link)
- Super Store Data Analytics and Visualization (Link)

Chapters:
- Public key cryptography (Link)

ACHIEVEMENTS AND EXTRA-CURRICULAR

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

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