Swasti Khurana

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🌐 https://medium.com/@swastikhurana0800   ⌂ https://github.com/SwastiKh/

EDUCATION

IIIT Vadodara   **Gandhinagar, India**
B.Tech in Information Technology   *Expected Graduation: May 2022*
CPI: 8.68/10 | SPI: 9.80/10

Maharaja Sawai Man Singh Vidyalaya   **Jaipur, India**
Higher Secondary School   *March 2018*
Percentage: 94.4

SKILLS

Computer Languages	Python, R, SQL, Java, Javascript
Tools	LaTeX, Git, Colab, Jupyter, Visual Studio Code
Softwares	Tableau, Wireshark, HashSuite, Nmap, Selenium, Archimate, MySQL
Framework & Libraries	Numpy, Pandas, Scikit Learn, Matplotlib, Django
Soft Skills	Leadership, Time Management, Teamwork, Interpersonal skills, Persistence

PUBLICATIONS

Paper submission in IEEE TSC Jounal   *Submitted for Review*
- Collaborated with Prof. Aditya Ghose, Prof. Novarun Deb, and Prof. Sajib Mistry for a novel service area modeled for a Crowdsourced IoT Service market.

Paper submission in ACM CHI Conference 2022   *Submitted for Review*
- Worked on a research paper publication with a PhD student in Stony Brook University. The paper is based on Computer Vision, Infographics generation.
- Responsibilities include creating an interface, testing models, exploring codes from published papers to reuse, etc.

RESEARCH EXPERIENCE

Algorithms to Architecture Lab, IIIT Delhi   **Delhi, India**
Research Intern   *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 Lights-out with Linear Algebra to formulate 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*
o Learn the fundamentals of machine learning and object-oriented programming best practices
o 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*
o Learn core ideas in machine learning, and build our first models.

NVIDIA DLI Fundamentals of Deep Learning (Link to Certificate)   *NVIDIA DLI*
o 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*
o Introduction to modern cryptography, with an eye toward practical applications.

Usable Security: Coursera Certification (Link to Certificate)   *University of Maryland on Coursera*
o 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*
o 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*
o 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:
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
o Secured 4th position in AWS DeepRacer Women's League India 2021. (Link to Certificate)
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 Mentor of Obscura - Photography club of IIITV
o Completed 30 days of Google Cloud Program (Link to Certificate)
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 Penumbera in Institute's Technical Fest (Cerebro - 2019)