

## HARSHITA CHADHA

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### EDUCATION

#### **George Washington University - Washington, D.C.**

*Master of Science, Computer Science - June 2024 (GPA - 4.0/4.0)*

Recipient of the School of Engineering and Applied Science's Dean's Scholarship. Research concentration in machine intelligence and cognition.

#### **I.P. University - New Delhi, India**

*Bachelor of Technology, Computer Science and Engineering - June 2022 (GPA - 9.5/10.0)*

Placed in the top 5% of the cohort. Took courses in data science and analytics, statistics, mathematics, computer networking, etc.

### EXPERIENCE

#### **Sanofi Pharmaceutical- Lyon, France**

*Project Analyst Intern - FinOps Enhancement (July 2021 - January 2022)*

- Generated cloud usage (Google cloud, Azure, and Amazon Web Services) cost views from a risk-oriented service perspective for 260 internal customer accounts.
- Created FinOps-oriented dashboards using Microsoft Excel and Apptio's Cloudability tool.
- Reviewed external vendors' cloud management procedures and worked on translating practices into documentation.

#### **MetFlux Research - Mumbai, India**

*Computer Vision Research Intern (June 2021 - August 2021)*

- Benchmarked computer vision algorithms based on performance analysis on photoplethysmographs for vitals detection (e.g - SpO2).
- Analyzed and fine-tuned performance markers to achieve a mean error of 2% across assigned vitals.

#### **Solera Life Sciences - New Delhi, India**

*Data Science & Artificial Intelligence Intern (October 2020 - April 2021)*

- Lead a team of 15+ professionals in daily data management tasks and set up a detail-oriented interdepartmental dialogue to facilitate fruitful decision-making.
- Contributed to analytical problem-solving by scraping, wrangling, and warehousing a significant volume of pharmacological data.
- Worked with natural language processing to create a speech recognizer for the identification of Indian vernacular accents and achieved 85% testing accuracy.

### SKILLS

**Programming Languages** - Python, R, C/C++, Java

**Libraries** - SciPy, NumPy, Pandas, Tensorflow, Keras, PyTorch, Skikit-learn

### SELECTED PUBLICATIONS

- AI-based security protocols for IoT applications: A critical review (September 2022) - *Recent Advances in Computer Science and Communications* [Journal Article]
- Analysis of User Inclination in Movie posters based on Color bias using transfer learning (December 2021) – *International Conference On Emerging Technologies In Data Mining And Information Security (IEMIS 2022)* [Journal Article]
- A Novel Hybrid Clustering Based Transmission Protocol for Wireless Body Area Networks (July 2021) - *Computers, Materials & Continua* [Journal Article]

### SELECTED PROJECTS

- **ScalNet7:** A machine learning-based pipeline dedicated to detecting Schizophrenia in adolescents using EEG signals. Constitutes EEG to Scalogram conversion algorithms and a 7-layer deep custom convolutional neural network. [Presentation] [GitHub]
- **UnClog:** Drone-assisted computer vision software to predict areas most prone to water logging during monsoons. Now patented under the Australian IPA [Link]

### ADDITIONAL LEADERSHIP EXPERIENCE

- **Founder, Meraki Lab (June 2020 - Present):** Established Meraki - A design studio to build AI innovation solutions. Presently composed of a team of four interns building reinforcement learning-based hardware for anxiety alleviation. The company portfolio constitutes multiple patron-funded projects at various stages in the patent pipeline. Visit the company website here.
- **Technical Lead, Google Developer Student Clubs (August 2020 - July 2021):** Planned inter-societal events and conducted hands-on workshops on topics such as data science, data analytics, machine learning, etc to foster analytical thinking. Mentored newbie members and emphasised the importance of teamwork by building collaborative projects.