

HARSHITA CHADHA

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LinkedIn - [in/harshita-chadha/](https://www.linkedin.com/in/harshita-chadha/) | **Website** - <https://harshitaachadha.github.io/> | **GitHub** - [/harshitaachadha](https://github.com/harshitaachadha)

EDUCATION

George Washington University - Washington, D.C.

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

Recipient of the School of Engineering and Applied Science's Dean's scholarship. Serving as a teaching assistant for the Introduction to Big Data and Analytics course. Majoring in machine learning and data science.

GGSIIP University - New Delhi, India

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

Placed in the top 5% of the cohort. Took courses in software engineering, data science and analytics, statistics, machine learning, etc.

EXPERIENCE

Sanofi

Data Analyst Intern - FinOps Enhancement (August 2021 - January 2022)

- Accomplished cloud cost optimization for 260 internal customer accounts with a mean expense reduction of 15%.
- Achieved a 40% reduction in resource retention decision-making time for internal customers by creating FinOps-oriented data dashboards using Microsoft Excel and Apptio's Cloudability ETL tool by integrating large-scale cloud usage data from diverse sources (GCP, Azure, and AWS).
- Reviewed and translated external vendors' cloud management workflow into comprehensive technical reports.

MetFlux Research

Computer Vision Research Intern (June 2021 - July 2021)

- Reduced computational overhead by 30% during the successful translation of state-of-the-art (SOTA) research-based computer vision algorithms into lightweight app-integrable solutions for vitals (SpO2, heart rate) detection from facial and fingertip video feed (plethysmography).
- Obtained a mean detection error of 2% by analyzing and fine-tuning performance markers.

Solera Life Sciences

Data Science & Artificial Intelligence Intern (February 2021 - April 2021)

- Implemented and managed a dynamic cron job and associated database, resulting in automated data updates and increased operational efficiency by reducing manual data entry by 80%.
- Contributed to analytical problem-solving by conducting data scraping, wrangling, and warehousing of a substantial volume of pharmacological data, totaling over 10 million records, enabling efficient data analysis and insights generation.
- Achieved a testing accuracy of 85% by developing a speech recognizer using natural language processing techniques to identify Indian vernacular accents, leveraging a dataset of 10,000 audio samples, and completing the project within a tight deadline of 3 months.

SKILLS

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

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

SELECTED PUBLICATIONS

- AI-based security protocols for IoT applications: A critical review (September 2022) [[Journal Article](#)]
- Analysis of User Inclination in Movie posters based on Color bias using transfer learning (December 2021) [[Conference Article](#)]
- A Novel Hybrid Clustering Based Transmission Protocol for Wireless Body Area Networks (July 2021) [[Journal Article](#)]

SELECTED PROJECTS

- **Recurrent Rhapsody**: A deep learning pipeline made up of an LSTM and s-BERT-based three-stage architecture for music generation (complementary lyrics-audio track combination) powered by text data from the million songs dataset and audio data from the lakh MIDI dataset. [[Research Report](#)] [[Poster](#)] [[GitHub](#)]
- **ScalNet7**: A deep learning pipeline for detecting Schizophrenia in adolescents using EEG signals. Constitutes an EEG to Scalogram wavelet transform stage and a 7-layer deep convolutional neural network. [[Presentation](#)] [[GitHub](#)]

LEADERSHIP EXPERIENCE

- **Founder, Meraki Lab (June 2020 - Present)**: Established Meraki - A design studio to build deep learning/AI-based innovative technologies. Presently composed of a team of three building a low-cost hardware prototype for EEG measurement. The company portfolio constitutes multiple patron-funded projects at various stages in the patent pipeline. Visit the website [here](#).
- **Technical Lead, Google Developer Student Clubs (August 2020 - July 2021)**: Planned inter-societal events and conducted hands-on workshops on AI, deep learning, data science, data analytics, etc to foster analytical thinking. Mentored newbie members and emphasized the importance of teamwork by building collaborative projects.