HARSHITA CHADHA
(945)246-2231 | Arlington, VA | harshitachadha@gwmail.gwu.edu
LinkedIn - /in/harshita-chadha/ | **Portfolio -** https://harshitaachadha.github.io/ | **GitHub -** /harshitaachadha

EDUCATION

George Washington University Washington, DC
Master of Science in Computer Science August 2022 – May 2024
- SEAS Dean's Scholar, Teaching Assistant for CSCI6444 (Big Data Analytics), majoring in Data Science.

GGSIP University New Delhi, India
Bachelor of Technology in Computer Science and Engineering August 2018 – June 2022
- Graduated in the top 5% of cohort, Research Assistant in CS Department (2020-2022)

SKILLS

Programming Languages - Python, R, C/C++, Java, SQL
Visualization and Analytics Tools – Tableau, PowerBI, MS Excel
Databases: MySQL, Oracle DBMS, MongoDB, PostgreSQL, NoSQL
Big Data Tools: Hadoop, Apache Spark, Snowflake, Databricks
Libraries - SciPy, NumPy, Pandas, TensorFlow, Keras, PyTorch
Other Software – MS Office Suite (PowerPoint, MS Word, Outlook)

WORK EXPERIENCE

Data Analyst Intern - FinOps Enhancement August 2021 – January 2022
Sanofi
- Accomplished cloud cost optimization using machine learning recommendations for 260 internal customer accounts with a mean expense reduction of 15%.
- Built monthly FinOps cloud usage data dashboards for customer accounts using Microsoft Excel and Apptio's Cloudability tool by integrating large-scale cloud usage data from diverse sources (GCP, Azure, and AWS).
- Achieved a 40% reduction in resource retention decision-making time of internal customers through tailored data dashboards and targeted communication aimed at maximizing user engagement.
- Reviewed and translated external vendors' cloud management workflow into comprehensive technical reports in SharePoint during a data procurement vendor changeover.

Computer Vision Research Intern June 2021 – July 2021
MetFlux Research
- Reduced computational overhead by 30% during the successful translation of research-based computer vision algorithms into lightweight app-integrable solutions for vitals (SpO2, heart rate) detection from facial and fingertip video feed (plethysmography) using Python.
- Obtained a mean detection error of 2% by analyzing and fine-tuning performance markers for vitals detection algorithms.
- Worked with a team of interns to establish a video data repository by collecting and meticulously organizing video samples, facilitating seamless patient record linkage.

Data and Artificial Intelligence Intern February 2021 – April 2021
Solera Life Sciences
- Contributed to analytical problem-solving by scraping, wrangling, and warehousing a substantial volume of pharmacological data, totaling over 10 million records, enabling efficient data analysis and machine learning-based insights generation.
- Achieved a testing accuracy of 85% by coding 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.
- Implemented an automated workflow for scheduled data updates and increased operational efficiency by reducing manual data entry by 80%.

PROJECTS

Predicting TV Series Ratings from Text Scripts [Research Report] [Presentation] [GitHub]
- Analyzed "Friends" TV series using data mining and NLP techniques (NER, Apriori Algorithm, sentiment analysis). Engineered features from text scripts and built an ensemble learning stacked model (Gradient, AdaBoost) to predict IMDb ratings, achieving an RMSE value of 0.2325.

Recurrent Rhapsody – End to End Music Generation [Research Report] [Poster] [GitHub]
- Engineered an advanced deep learning pipeline for music generation, leveraging LSTM and sentence-BERT models to compose lyrics and matching audio tracks from extensive text and audio datasets. Leveraged TensorFlow, PyTorch, and GPU acceleration for training.

LEADERSHIP EXPERIENCE

Founder, Meraki Lab (June 2020 - Present)
- Established Meraki – my sole proprietary business aimed at fostering the development of AI-based solutions and successful intellectual property securing. Successfully negotiated contracts and funding packages to strategically build the company portfolio which constitutes projects at various stages in the patent pipeline. To learn more about the company's mission, visit the website here.

Technical Lead, Google Developer Student Clubs (August 2020 - July 2021):
- Demonstrated critical and creative thinking skills by planning inter-societal events and conducting hands-on workshops on AI, deep learning, data science, data analytics, etc. to foster analytical thinking. Mentored newbie engineer members and emphasized the importance of teamwork by building collaborative projects. Headed the operations team to successfully organize multiple hackathons with 500+ participants.