SHIVAM LALAKIYA

Boston, MA |+1 (781) 363-8482 | lalakiya.s@northeastern.edu | www.linkedin.com/in/shivam-lalakiya

EDUCATION

Northeastern University, College of Engineering | Boston, MA (Expected) May 2023
Master of Science in Data Analytics Engineering GPA: 4.0/4.0
Relevant Courses: Foundation of Data Analytics, Data Management for Analytics, Computation and Visualization, Machine Learning in Engineering

Sardar Vallabhbhai National Institute of Technology | Surat, India May 2021
Bachelor of Technology in Electronics and Communication Engineering CGPA: 8.10/10.0

TECHNICAL SKILLS

Languages/ Database Frameworks: C, Python, R Programming, SQL, MongoDB, Pytorch, TensorFlow, Keras
Tools and Technologies: Power BI, Tableau. MS Excel, R-Studio, Natural Language Processing, Neural Networks, Machine Learning, Deep Learning, Distributed Intelligence and Graph Theory.
Libraries: Scikit-Learn, Pandas, Numpy, OpenCV, Matplotlib

EXPERIENCE

Northeastern University | Course Assistant, Introduction to Distribution Intelligence Jan 2022 - Present
- Collaborated with Prof. Milad Siami to design the assignment and homework to introduce Distributed Intelligence.
- Assisted students with navigating courses, assignments, and other vital areas to ensure learner success and course completion.

IIT Madras | Research Assistant | Chennai, India April 2020 - Sept 2020
- Built a project entitled 'Content Caching using Deep Learning,' which involved time series prediction based on trends using Recurrent Neural Networks.
- Expanded this LSTM based caching policy, where RNNs were used to predict user requests' future preferences, and intelligent caching was done accordingly.
- Achieved better hit rates compared to existing caching policies such as LIFO, LRU, and LFU.

Sardar Vallabhbhai National Institute of Technology | Research Intern | Surat, India Jul 2019 – Dec 2019
- Administered a project entitled "Multimodal Biometric System," where Iris, Facial, Speech Recognition, and fingerprints were combined, utilized, and implemented using CNNs.
- Integrated these factors to gain better precisions on various datasets and create a reliable biometric system.
- Applied this model in the department and professor's cabin to enhance security.

ACADEMIC PROJECTS

Analytics and Visualization using R programming | Northeastern University Sep 2021 – Dec 2021
- Imported University Rankings and E-commerce database into Rstudio and performed cluster analysis, text mining, probabilistic analysis, and time series to find the insights.
- Derived the most affecting factors for the ranking of the universities and reasons behind the changes in hierarchy.
- Obtained the correlation between discounts, sales, and profit for e-commerce websites and concluded that festive seasons have higher sales and non-festive seasons have higher discounts.

Hyperspectral Image Classification using Deep Learning | SVNIT Jul 2020 – May 2021
- Collaborated with Dr. Jigish Patel to implement Hyperspectral Image Classification using CNNs, GANs, and PCA.
- Worked on PCA and k-PCA to reduce the time and space complexity by projecting higher dimension data in lesser dimensions using kernel methods.
- Compared the existing CNN algorithm with PCA-CNN and obtained less training time and complexity.

GANs based Modulation Recognition | SVNIT Jul 2020 – Dec 2020
- Drafted a seminar report, including GANs based semi-supervised modulation techniques to recognize modulation.
- Delivered exceptional results using the small dataset, where more samples were generated and further utilized for the recognition.

ADDITIONAL EXPERIENCE

Student Success Guide | Boston, MA Jan 2022 - Present
- Facilitated first-year experience for incoming first-year students by providing resources through the MentorHub NU app