Antara Tewary

✉ atewary@gmu.edu 📞 +1(571)244-5872 📍 Fairfax, VA ⭘ StringAna in tewaryantara

🎓 EDUCATION

MS in Computer Science (ML concentration),   August 2023 – May 2025 | Fairfax, US
George Mason University ✐
- GPA: 4.0 (Fall 23)

🎨 SKILLS

Languages and Framework	Database	Tools and Technologies	Soft Skills
C,Python, React Js,Express Js, TypeScript	MongoDB, PostgreSQL, SQL	Git, VS Code, Tensorflow, Scikit-learn, Dask, Plotly, Seaborn	Excellent Interpersonal Skills Adaptability Discipline

💼 PROFESSIONAL EXPERIENCE

Program Office Intern, *George Mason University Fiscal Services* ✐   October 2023 – present | Fairfax, United States
- Utilized data-driven approaches to optimize Automation processes, enhancing efficiency and uncovering opportunities for improvement within the organization.
- Played a key role in the development of advanced reports, leveraging analytical prowess to provide actionable intelligence for decision-making in Automation, Application, and BI contexts.
- Employed statistical analysis techniques to identify patterns and trends within operational data, providing valuable input for strategic decision-making processes.
- Collaborated with cross-functional teams to translate business and operational needs into data-driven solutions, demonstrating the ability to bridge the gap between technical and non-technical stakeholders.
- Actively participated in the creation of data-centric documentation for the Automation CoE, ensuring clarity and accessibility of insights derived from operational data for future reference and decision-making.

Software Developer, *Mercedes Benz Research and Development India*   October 2020 – July 2023 | Bengaluru, India
- Developed and implemented machine learning algorithms, including regression models for predictive analytics and clustering algorithms for pattern recognition, within the KaDHerald Project.
- Leveraged data science techniques to extract meaningful patterns and trends from user engagement data, employing regression and clustering models to identify usage patterns and potential areas for improvement.
- Conducted rigorous data manipulation and preprocessing, ensuring the accuracy and reliability of key statistics related to users, add-on usage, and reported issues.
- Conducted exploratory data analysis to uncover patterns and trends, providing valuable input for the iterative improvement of features and functionalities within the NX Add-ons.
- Built and implemented innovative algorithms to enhance the accuracy and speed of advanced drawing tools in Digital Drawing project, resulting in a 40% reduction in drawing production time
- Conceptualized and delivered 8 to 10 user-centric features, enhancing overall user experience and ease of interaction with the software.

📂 PROJECTS

Sentiment Analysis Yelp Reviews   August 2023 – November 2023
- Spearheaded the development of a sentiment analysis system for e-commerce product reviews, implementing clustering to predict positive and negative sentiments.
- Engineered features from unstructured text data, applying advanced text processing NLP techniques to extract relevant information and improve the model's predictive performance.
- Utilized cross-validation to fine-tune model parameters, optimize feature selection, and enhance the similarity functions, resulting in a robust sentiment analysis tool with improved accuracy on a diverse range of product reviews.

Emotion Detection in Healthcare, [*Undergrad Project*]   August 2019 – June 2020
- Pioneered an Emotion Detection in Healthcare application, achieving 89% accuracy in classifying seven emotions on a subject's face.
- Leveraged insights from datasets (FERC-2013, CK+) through data augmentation and fine-tuning, resulting in a remarkable 10% average accuracy improvement and a 15% reduction in false positive rates.
- Developed an innovative emotion classification algorithm by meticulously tracking 68 facial landmark points, providing a nuanced understanding of subjects' emotions.

📜 CERTIFICATES

- Azure AZ 900 certification ✐
- NPTEL Certification for Artificial Intelligence ✐