Antara Tewary

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EDUCATION

MS in Computer Science (GPA : 4.00), *George Mason University* Aug 2023 – May 2025 | Fairfax, US
- **Relevant coursework:** Theory/Application of Data Mining (CS 584), Machine Learning (CS 688), Software Design and Architecture (CS 621)

BS in Computer Science (GPA:3.83), *Visvesvaraya Technological University* 2016 – 2020 | Mandya, India
- **Relevant Coursework:** C Programming, Artificial Intelligence, Operating Systems, Data Structures, DBMS

SKILLS

Languages and Framework
Python, C, React Js, Express Js

Tools and Technologies
Git, VS Code, Agile, Kanban Project Management, UiPath, Jupyter Notebook

Soft Skills
Excellent Interpersonal Skills
Adaptability
Discipline

Libraries
Tensorflow, Seaborn, NumPy, Pandas, Scikit-learn

PROFESSIONAL EXPERIENCE

Program Office Intern, *George Mason University Fiscal Services* Oct 2023 – present | Fairfax, United States
- Utilized data-driven approaches to optimize Automation processes using UiPath, enhancing efficiency and uncovering opportunities for improvement within the organization, resulting in a reduction of manual processes by 215 Hours.
- 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 Consultant, *Mercedes Benz Research and Development India* Oct 2020 – Jul 2023 | Bengaluru, India
- 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, resulting in a 20% improvement in the accuracy of identifying usage patterns and pinpointing potential areas for improvement.
- Conducted rigorous data manipulation and preprocessing, ensuring a 15% improvement in 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, contributing to a 25% improvement in the iterative enhancement 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 a 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

Recommender System Movie Rating Nov 2023
- Showcased expertise in data analysis and applied advanced collaborative and content-based filtering techniques to develop a highly effective Recommender System.
- Implemented hybrid approaches, integrating diverse data sources including movie genres, directors, and actors to enhance the precision of user-movie rating predictions.
- Leveraged strong analytical skills to optimize the model using techniques like weighted hybrid models, regularization, handling cold start problems, and achieving outstanding performance in predicting user-movie ratings, with a focus on improving the Root Mean Squared Error (RMSE) metric.

Emotion Detection in Healthcare, [*Undergrad Project*] Aug 2019 – Jun 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