Asfiya Misba

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asfiya-misba.github.io/

OBJECTIVE

Intellectually curious and highly driven Computer Science graduate with a strong academic record seeking a full-time position or internship. Eager to apply problem-solving skills and attention to detail to contribute effectively. Open to relocation for the right opportunity.

EDUCATION

Master of Science in Computer Science (GPA: 4.0/4.0) Aug 2022 – May 2024
The University of Texas at Arlington Arlington, TX
Relevant Coursework: DBMS Implementation, Distributed Systems, Algorithms, Data Analysis, Artificial Intelligence, Machine Learning, Web Data Management, Advanced Topics in Software Engineering

Bachelor of Engineering in Computer Science (GPA: 9.6/10.0) Aug 2018 – Jul 2022
RNS Institute of Technology, affiliated to Visvesvaraya Technological University Bengaluru, India
University Gold Medalist

SKILLS

Languages: Python, Java, HTML, CSS, JavaScript, PHP, C, C++
Frameworks and Tools: Django, React.js, Node.js, Postman, Git, Eclipse, Jupyter, Jira, Visual Studio Code, XAMPP, Tableau
Databases: Oracle, MySQL
Operating Systems: Windows, Linux, Unix, macOS

PROFESSIONAL EXPERIENCE

Graduate Research Assistant, The University of Texas at Arlington Sep 2023 - May 2024
- Developed and maintained user-friendly web interfaces for Open Educational Resources using HTML, CSS, JavaScript, and React, and created engaging interactive content using H5P, enhancing user engagement and accessibility.
- Utilized Tableau to analyze cost savings data from textbook usage each semester, identifying opportunities that led to a 75% reduction in educational material costs, optimizing resource allocation and enhancing financial efficiency.
- Assisted in writing grant proposals and securing funding for research projects, while documenting technical specifications and front-end development processes to demonstrate the practical applications and potential impact of the research, and to enhance future developer collaboration.

Student Associate, The University of Texas at Arlington Jun 2023 - Aug 2023
- Utilized LaTeX, HTML, CSS, and JavaScript to support content development and customization, resulting in a 15% improvement in the overall learning experience and customization of learning materials.
- Provided timely editing, troubleshooting, and technical support to content experts, resulting in a 40% reduction in content development time and ensured seamless functionality and user satisfaction.

Data Science Intern, LocalHost Sep 2021 - Dec 2021
- Developed and fine-tuned machine learning models, including Linear Regression, Logistic Regression, Tree-Based Approaches, Support Vector Machines, Clustering, and Natural Language Processing, emphasizing model selection and hyper-parameter tuning.
- Built a predictive model using Python libraries such as pandas, numpy, and seaborn, achieving an 81% accuracy in forecasting data scientist salaries and participated in a data science hackathon, creating a flight ticket price prediction model with a 72% efficiency.
- Performed extensive data cleaning and preprocessing tasks, such as handling missing values, data normalization, and feature engineering, ensuring high-quality input for analysis and model training.

ACADEMIC PROJECTS

Learning Management System, UTA Fall 2023
- Implemented a learning management system using HTML, CSS, PHP, MySQL to create distinct modules for Student, Instructor, Admin, Quality Assurance Officer, and Program Coordinator roles.
- The system includes features for user authentication, role-based access control, data management, and communication, providing a comprehensive platform for effective academic management.

TitanicTriEnsemble, UTA Summer 2023
- Conducted a comprehensive analysis of ensemble learning methods, including Decision Trees, Random Forest, and AdaBoost, to predict Titanic passenger survival, achieving accuracy improvements up to 81.68% on the test dataset.

Informed and Uninformed Search, UTA Spring 2023
- Implemented BFS, UCS, DFS, DLS, IDS, greedy, A* search to solve a modified version of the 8-puzzle problem.
- Generated a trace file which keeps a track of changes to the fringe, closed set contents per loop of search, counts of nodes expanded and the number of nodes.

Distributed File and Computation Server, UTA Fall 2022
- Developed single-threaded and multi-threaded servers with UPLOAD, DOWNLOAD, DELETE, and RENAME functionalities.
- Implemented synchronous and asynchronous RPC computation servers supporting simple mathematical operations.