

Bibek Wagle

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Education

University of Texas at Arlington

Expected Graduation: Spring 2025

Bachelor in Computer Science

GPA: 3.6

Relevant Coursework: Machine Learning, Artificial Intelligence, Database, Software Engineering, Algorithm and Data structure

Skills

- Programming Languages: Python, R, MySQL, Java, C++, C
- Tools: Power BI, Excel, Tableau, Jupyter, NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow, Git, JIRA

Projects

Fire Hydrant Maintenance System

Date Completed

- **Objective:** Automate fire hydrant maintenance to reduce manual labor for firefighters and the water department.
- **Key Features:** Real-time monitoring of hydrant conditions (pressure, valve position, flow) with automated alerts and maintenance logs.
- **Integration:** Equipped with sensors and communication capabilities to report issues to a central system.
- **Impact:** Increases efficiency and reliability, ensuring hydrants are always operational during emergencies.

Expense 8 Puzzle Problem Solver

Date Completed

- **Objective:** Solve a modified 8-puzzle problem where each tile has a movement cost, using various search algorithms.
- **Key Features:** Supports multiple search methods: BFS, UCS, DFS, DLS, IDS, Greedy, and A*. Command-line interface with optional trace dump for analysis.
- **Functionality:** Takes input start and goal states, calculates the optimal tile movement order while accounting for associated movement costs.
- **Impact:** Enables exploration of both uniformed and informed search strategies, with real-time tracking of expanded nodes and search traces.

Linear Regression Model

Date Completed

- Created a linear regression model to predict outcomes using training and test datasets.
- Incorporated regularization to prevent overfitting and improve generalization.

Word Search Game

Date Completed

- Designed and deployed a Word Search game using Java, focusing on user interface and experience.
- Implemented efficient search algorithms to enhance gameplay performance.

Certifications

[The Ultimate MySQL Bootcamp](#) -Udemy, 2023

[Mastering Data Structures Algorithms using C and C++](#) -Udemy, 2023

Experience

Data Entry Clerk Jan 2019-July,2021

-Description: Worked as a data entry clerk at Akala Badniya Bank