Sohail Quadir

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EDUCATION

University of Massachusetts Lowell – Lowell, MA   January 2024
Bachelor of Science in Computer Science

University of Massachusetts Lowell - Lowell, MA   January 2024 - December 2025
Master of Science in Computer Science

Relevant Coursework: Algorithms, Machine Learning, Natural Language Processing, Artificial Intelligence

SKILLS

Programming Languages: *C++, Python*

Libraries & Frameworks: OpenCV, Numpy, Pandas

Tools & Platforms: Windows Powershell, Microsoft Azure Active Directory

Additional Expertise: Image Processing, Data Analysis, Cloud Identity Management

PROJECTS

Breast Cancer Classification   Spring 2024
- Trained and evaluated ResNet-50 and VGG-16 convolutional neural network models on the BreakHis dataset to classify breast cancer histopathological images into benign and malignant categories.
- Compared model performance using various metrics such as accuracy, precision, recall, and F1-score.
- Visualized results with confusion matrices and ROC curves to analyze strengths and weaknesses in each architecture.

Predicting Stock Market Trends using machine learning models   Fall 2024
- Designed and implemented ARIMA, LSTM, and BiLSTM models to analyze and forecast stock market and commodity price trends during the volatile COVID-19 period (Jan-June 2020).
- Preprocessed data for multiple assets, including equity indices, oil, and gold, by handling missing values, normalizing data, and generating time-lagged features for sequential modeling.
- Evaluated model performance using metrics such as Mean Absolute Error (MAE), Root Mean Squared Error (RMSE), and R-squared.

WORK EXPERIENCE

The TJX Companies, Inc., Marlborough, MA   January 2024 - Present
IT Security Engineer

- Provisioned and managed application access for a user base exceeding hundreds of thousands, ensuring compliance with organizational policies and access control standards, including access to key financial applications, ensuring timely access for authorized users.
- Rotated through critical roles, including:
    - Serving as primary on-call responder to troubleshoot and resolve urgent application access and system issues outside of business hours.
    - Managing the lifecycle of application certificates, including renewal, deployment, and troubleshooting, to ensure uninterrupted system functionality.

Vizuro LLC., Burlington, MA   July - September 2020
Software Intern

- Developed code in C and Python to train Artificial Intelligence models for detecting defects on thin slices of semiconductors using machine learning algorithms.
- Implemented image processing techniques and defect detection pipelines with the OpenCV library