MEET SHAH

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OBJECTIVE

Enthusiastic and dedicated graduate student seeking the position of Graduate Assistant for Student Activities at The University of Texas at Arlington. Eager to leverage my skills in event management, committee co-advising, and marketing to enhance the collegiate experience for students and foster a stronger sense of community within the university.

EDUCATION

The University of Texas at Arlington (UTA) | M.S. - Computer Science | Texas, USA   **Aug 2023 – May 2025**
P P Savani University (PPSU)| B. Eng. - Computer Engineering | Gujarat, India   **Jun 2018 – May 2022**

EXPERIENCE

Data Engineer, Elite Technocrats | Gujarat, India   **Feb 2023 – Jun 2023**

- Developed a custom executable (EXE) application in Python for automated trading in the stock market. Integrated with popular stock market APIs to fetch real-time data and execute buy/sell orders based on predefined trading strategies.
- Implemented robust risk management algorithms to ensure prudent position sizing and stop-loss mechanisms, resulting in consistent and profitable trading outcomes.
- Designed a user-friendly interface for configuring trading parameters, monitoring live trading sessions, and generating comprehensive reports for performance analysis.

SRE (Site Reliability Engineer) | Covered by Sage   **Aug 2021 - Jan 2022**

- Proficient in containerization and deployment using Docker, demonstrated by the ability to convert files/applications into images and store them in a Docker file, ensuring seamless and consistent deployment across various environments.
- Command over AWS services like Routing, S3 bucket management, and Lambda function deployment.
- Demonstrated proficiency in Microsoft services through the creation and management of YAML files.

PROJECT EXPERIENCE

Text Classification for News Categorization with Naïve Bayes

- Engineered a custom Naive Bayes classifier using Python, achieving a 75% accuracy in classifying intricate datasets.
- Strengthened classifier with Laplace smoothing, reducing false positives and negatives by 10%.
- Utilized: Feature selection, Cross-validation, Python, Machine Learning Concepts (Naive Bayes algorithm, Laplace smoothing)

NLP based Chatbot

- Developed a Chat-bot utilizing advanced Natural Language Processing (NLP) techniques.
- Implemented the ability to identify equivalent queries presented in varying formats.
- Achieved accurate retrieval and precise responses to individual user queries.
- Specialized the bot in addressing inquiries related to university admission.
- Included features to provide information on hostel and canteen facilities.
- Utilized: Json, Neural Network Concepts, Python

Q/A NLP Based System

- Developed a Question-Answering (Q/A) system using Python and advanced Natural Language Processing (NLP) techniques.
- Designed and trained models to understand and respond to user queries effectively.
- Implemented techniques such as tokenization, semantic similarity, Anaphora resolution, and context extraction to enhance the accuracy of responses.
- Utilized: NLTK, Python

Image Stitching (Panorama Effect)

- Developed an Image Stitching application using Python.
- Utilized computer vision techniques to seamlessly combine multiple images into a single panoramic view.
- Implemented algorithms for feature detection, matching, and blending.
- Created high-quality stitched images through the application of these algorithms.
- Demonstrated proficiency in OpenCV and image processing.

TECHNICAL SKILLS

- **Development**: Python, HTML5, CSS3, Bootstrap, SQL
- **Database**: MySQL, MongoDB, PostgreSQL
- **Frameworks & Libraries:** Flask, PyTorch, TensorFlow, NLTK, Spacy, Numpy, Pandas
- **Version Control**: Git (GitHub)
- **Others:** Docker, AWS, Kubernetes, Teraform

PUBLICATIONS

- Titanic Survivor Prediction
- Image Classifier
- Naïve Bayes Classifier