ABHISHEK SHAH

Rochester, NY | (585) 351-9899 | as5553@rit.edu | in LinkedIn | Portfolio | GitHub

Available: Summer'23 Internship, Fall'23 Co-op
Spring'23: Incoming SDE Intern at General Electric (GE)

EDUCATION

Rochester Institute of Technology   August 2021 – December 2023
Master of Science in Computer Science   *Rochester, NY, United States*

Sant Gadge Baba Amravati University   June 2016 – November 2020
Bachelor of Engineering in Computer Science   *Amravati, Maharashtra, India*

RELEVANT COURSEWORK

Analysis of Algorithms, Advanced OOP, AI, Big Data Analytics, ML, Cloud Computing, Distributed Systems, Database Systems

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, SQL
Databases: PostgreSQL, MySQL, MongoDB
Web Technologies: HTML, CSS, REST, Electron.js, Node.js, React.js
Tools and Libraries: AWS, Git, NumPy, Pandas, Matplotlib, Seaborn
Certifications: AWS Certified Cloud Practitioner (CLF-C01)

WORK EXPERIENCE

Graduate Teaching Assistant   January 2022 – December 2022
Rochester Institute of Technology   *Rochester, NY*
- Graduate Teaching Assistant for **ISCH 110: Principles of Computing with Python** and **ISCH 610: Intro to Scripting**
- Ran weekly classes to introduce a new course topic with its applications
- Conducted recitation and code review sessions to mentor students with tasks to be accomplished and coursework related to Python and Scripting languages while managing lab sessions and grading assignments
- **Technologies:** Python, HTML, CSS, JavaScript, jQuery, AJAX

Software Engineer Intern   August 2020 – January 2021
Quant Binary   *Amravati, Maharashtra, India*
- Developed algorithmic trading strategies using Python and C++ to automatically trade stocks in the U.S. stock market
- Achieved a single day **profit** of **+9%**
- Utilized PythonAnywhere to provide a continuous integration service in order to automate the entire process of loading the latest algorithm, running the tests, and generating a report of the results once per day
- **Technologies:** Python, C++, SQL, Alpaca API, PythonAnywhere

ACADEMIC PROJECTS

Podcast Summarizer ||*GitHub*   **December 2022**
- Designed an AWS architecture for implementing an **extractive summarization model** that will automatically generate summaries for audio podcasts in approximately 3 to 4 lines
- Implemented a **sentiment analysis model** to detect the sentiment of the summarized text
- Developed a web app using Flask for publishing the summarized transcript
- **Technologies:** Python, Flask, AWS – EC2, S3, Lambda, Comprehend, Transcribe, Terraform

IMDb Data Engineering and Management ||*GitHub*   **April 2022**
- Built a top-down relational database with **21 million** rows and wrote performant PostgreSQL queries that boosted information retrieval speeds by **50%**
- Wrote queries for transferring data to MongoDB and created MongoDB pipelines to query the data
- Pre-processed and cleaned the database to find correlations in the data while implementing frequent item-set mining using Apriori algorithm and K-Mean clustering
- **Technologies:** PostgreSQL, MongoDB, Apache Spark, Matplotlib, Python

Wikipedia Language Classifier ||*GitHub*   **April 2022**
- Implemented Decision trees and AdaBoost techniques entirely in Python to categorize a definite-sized sentence as English or Dutch using feature engineering
- Generated features by using 25,000 sentences from Wikipedia to train the model for optimum accuracy
- Successfully classified sentences with about **98%** accuracy
- **Technologies:** Python

Intelligent Path Finder Using A* Algorithm ||*GitHub*   **February 2022**
- Implemented an A* **heuristic search algorithm** on a topological map with terrain information, elevation contours, and a set or sequence of locations to visit
- Generated optimal paths by finding the best way to get from point to point using BFS, heuristics and cost function
- **Technologies:** Python