Abhishek Shah

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Available: Internship/Co-op - Spring 2023, Summer 2023, Fall 2023

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, Artificial Intelligence, Machine Learning, Big Data, Cloud Computing, Database Systems

TECHNICAL SKILLS

Languages: Python, Java, C++, JavaScript, SQL
Databases: PostgreSQL, MySQL, MongoDB, H2
Web Technologies: HTML, CSS, REST, jQuery, AJAX, React.js
Tools and Libraries: AWS, Git, Docker, NumPy, Pandas, Matplotlib, Seaborn
Certifications: AWS Certified Cloud Practitioner (CLF-C01)

WORK EXPERIENCE

Graduate Teaching Assistant — **January 2022 – Present**
Rochester Institute of Technology — *Rochester, NY*

- Graduate Teaching Assistant for **ISCH 110: Principles of Computing with Python** and **ISCH 610: Intro to Scripting**.
- Conducting weekly classes to introduce a new course topic with its applications.
- Holding virtual mentoring hours and recitation sessions to mentor students with tasks to be accomplished and coursework related to Python and Scripting.
- Managing lab sessions, grading assignments and projects while keeping track of students' understanding of the subject.
- **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*** — **September 2022 - Present**

- Developing an **extractive summarization** model that will automatically generate summaries for audio podcasts in approximately 3 to 4 lines allowing listeners to preview any audio podcast.
- Implementing and fine-tuning a summarization model to specifically handle podcast summaries summaries using transcripts generated from an audio podcast.
- Designing a web app using ReactJS for publishing the summarized transcript.
- **Technologies:** AWS – EC2, S3, Lambda, API Gateway, CloudWatch, Amplify, Terraform, Python, React.js

IMDb Data Engineering and Management ||***GitHub*** — **January 2022 - April 2022**

- Designed a relational database with **21 million** IMDb records and made sure the data is normalized.
- Created indexes that boosted information retrieval speeds by **50%**
- Pre-processed and cleaned the database to find correlations and to apply different statistical methods.
- Implemented frequent item-set mining to calculate associations and clusters among different movies and genres using algorithms like Apriori and K-Means.
- **Technologies:** PostgreSQL, MongoDB, Apache Spark, Matplotlib, Python

Wikipedia Language Classifier ||***GitHub*** — **March 2022 - 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*** — **January 2022 - 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