

ABHISHEK SHAH

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

EDUCATION

Rochester Institute of Technology

Master of Science in Computer Science

August 2021 – December 2023

Rochester, NY, United States

Sant Gadge Baba Amravati University

Bachelor of Engineering in Computer Science

June 2016 – November 2020

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, 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

Rochester Institute of Technology

January 2022 – Present

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 recitation 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

Quant Binary

August 2020 – January 2021

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](#)

November 2022

- Designing AWS architecture for implementing an **extractive summarization model** that will automatically generate summaries for audio podcasts in approximately 3 to 4 lines
- Implementing a **sentiment analysis model** to detect the sentiment of the summarized text
- Designing 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