Samheeta Mistry

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EDUCATION

University of Southern California January 2021 – May 2023

*B.S., Computational and Applied Mathematics & Minor in Computer Science*

Coursework: Statistics & Probability (400-Level), Linear Algebra, Data Structures & Algorithms: C++, Machine

Learning in Python, Data Structures & Algorithms: Python, Discrete Mathematics, Introduction to C++

EXPERIENCE

Roche May 2021 – August 2021

*Software Integration Intern*

• Used Python & REST APIs to integrate data into enterprise clinical system for customer-facing solution

• Created workspaces and tested API calls in Postman, implemented source control with Bitbucket & Jira

• Wrote & contributed to documentation involving the FHIR API for NAVIFY development tools

West Valley College December 2019 – January 2021

*Mathematics Tutor*

• Developing tools for students of all skill levels and learning styles in individual settings

• Tutoring early Algebra through Calculus and Linear Algebra as well as statistics

Celigo, Inc. October 2019 – March 2020

*Consultant*

• Assisted solutions consultants and product managers to identify product issues efficiently

• Performed data analysis with customer solutions team on Zendesk product support tickets

SKILLS \_\_\_\_

Languages: Python (proficient), Java, C++, HTML/CSS (beginner)

Frameworks & Technologies: PyCharm, Xcode, Jupyter Notebook, Eclipse, Postman

PROJECTS

Spotify Artist Visualization https://rb.gy/a3ynur

• Utilized the Spotify API in Python to harvest audio features using artist’s Spotify URI

• Converted audio feature data to CSV using pandas in Python

• Used Jupyter Notebook with matplotlib to translate data into a scatter plot

Influencer Data Visualization https://github.com/smistry3/octinfluencerdata

• Created using Jupyter Notebook, utilizing pandas and matplotlib packages within Python

• Visualizes key statistics of top influencers through graphs and charts from CSV file data

BailBot https://github.com/smistry3/bailbot

• Developed a Python chatbot using NLTK package, implemented in the console and command line

• User input yields links to state and nationwide donation-based bail funds and state bail laws

Proper Blackjack https://rb.gy/g66wqf

• Developed a GUI-based functional blackjack game using Python and Tkinter package

• Displayed card images and fostered user interaction using buttons and labels

Matrix Determinant Calculator shorturl.at/cAF17

• Created a calculator using Python functions, solves determinants of 2x2, 3x3, and 4x4 matrices

• Used by faculty and students in linear algebra and precalculus classes at West Valley College