Ayush Chakraborty

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Education

Dartmouth College — Hanover, NH
MS in Quantitative Biomedical Sciences - Health Data Science — *Aug. 2021 – Dec 2022*

University of Maryland — College Park, MD
BS in Computer Science, Minor in Statistics — *Aug. 2017 – May 2021*

Experience

ITC Student Technician — October 2021 – Present
Dartmouth Information, Technology and Consulting — *Hanover, NH*

- Resolved time-sensitive technical problems through proper assessment, analysis and resolution implementation.
- Performed regular classroom and hardware checks to ensure proper function of equipment.

Graduate Student Council Representative — September 2021 – Present
Dartmouth College — *Hanover, NH*

- Student Representative of Dartmouth's Quantitative Biomedical Sciences program cohort at Dartmouth Graduate Student Council.
- Member of the External Affairs Committee, whose main activities are to coordinate with the external affairs of the GSC, including maintaining relationships with the other organizations for political advocacy at all levels of government.

DevOps/Big Data Intern — June 2019 – August 2019
Flydubai — *Dubai, United Arab Emirates*

- Developed a REST API using FastAPI and PostgreSQL to store data from learning management systems
- Developed a full-stack web application using Flask, React, PostgreSQL and Docker to analyze GitHub data
- Explored ways to visualize GitHub collaboration in a classroom setting

Projects

Stockets | *Python, Pandas, NumPy, Google Finance API* — Summer 2021

- Performed an analysis on the Stock Market which basically monitors the stocks and opening prices of Google Stocks.
- Did a comparison of Tesla, Ford and GM stocks, opening prices, market cap, volume trading and cumulative returns.
- Used several probability theory like Correlation and Scatter Matrix, Daily percentage change, volatility and Box Plots.

Classification of Mortgage Affordability | *Python, Pandas, NumPy* — Summer 2021

- Performed an experiment to analyze and predict whether affordability can be standardized depending on regions using the Mortgage Affordability data from Zillow.
- Finding out which algorithm was suitable: decision tree vs logistic regression, random forest vs decision tree, K-nearest neighbours vs random forest

Virtual Reality Locomotion | *C, Unity Engine, Git, Visual Studio* — Fall 2018

- Constructed a Virtual Museum for the Philips Collection Museum in D.C. as part of a research project. A Virtual Reality implementation in a museum has the potential to reach a far broader audience.
- This project presents a test-bed and space for experimentation to design and evaluate immersive experiences and architectures before they are developed at full scale. Implemented using Unity, Visual Studio, C for scripting, SDK's like GoogleVR SDK, VRTK SDK, and SteamVR SDK was used.

Technical Skills

Languages: Python, Java, R, C, SQL, MATLAB, Ruby, OCaml, Rust, LaTeX, SAS, Bash Script, Git
Developer Tools: Microsoft Azure, Docker, Jenkins, My SQL, MongoDB, Android Studio, Anaconda, PowerBI
Related Coursework: Algorithms, Introduction to Artificial Intelligence, Human-Computer Interaction, Computer Vision, Android Development, Computer Architecture, Data Structures, Introduction to Statistical Computing with SAS, Applied Probability and Statistics I II, Applications of Linear Algebra.