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Education

Boston University

Bachelor of Arts, Computer Science. 3.75

Boston, MA

Relevant Coursework: Systems, Intro to AI, Intro to Data Science, Data Science Applied

May 2025

Deans List x3

Skills

Programming Languages: Python (Pandas, scikit-learn, NumPy, Matplotlib, Seaborn), C, Java, Bash, SwiftUI **Tools & Environments:** Command Line, Trello, Git, VSCode, Spyder, Xcode, SCC (Shared Clustered Computing)

Mathematical Expertise: rishabsudhir.com/thedatasciencegospel

Experience

City of Boston - Citywide Analytics Team

Boston, MA

Project Lead & Data Scientist

Jan 2024 - May 2024

- Led a data science initiative with **Boston University SPARK!** analyzing the impact of housing remodels and zoning conversions on rental availability, providing actionable insights for the City of Boston
- Processed and analyzed 16 years of data (≈3,000,000 data points) using Python, focusing on linear regression, correlation analysis, and geographic heat maps
- rishabsudhir.com/city-of-boston-unit-loss

Fi Money Bangalore, India

IOS development Intern

Jun 2023 - Aug 2023

- Developed screens for a new user flow, enabling salary deposits from external banks for over 100,000+ users
- Utilized MVVM architecture to enhance code organization and maintainability
- Integrated GRPC protobufs to connect the backend to the frontend
- rishabsudhir.com/ios-internship-fi-money

PROJECTS

github.com/Rishab-Sudhir • rishabsudhir.com

Data Science

Analyzing Color Palettes in Romance Films

Jul 2024 - Aug 2024

- Analyzed color palettes in 75 romance films (1990s–2024) across English, Hindi, and Korean languages, exploring cross-cultural cinematic trends
- Built a custom system for color extraction using Python, FFmpeg, and ColorThief, analyzing ≈15,000,000 colors
 for attributes like saturation, brightness, contrast, and color temperature
- Applied K-Means clustering and Gaussian Mixture Modeling (GMM) to identify dominant color patterns.
- rishabsudhir.com/the-colors-of-romance

Fashion Through Data: Color Extraction from Ghibli Films

Jun 2024 - Jul 2024

- Analyzed ≈ 8,000,000 dominant colors from Studio Ghibli frames to inspire fashion design
- Built a system to store and analyze colors, leveraging ColorThief to identify the top ten colors in each frame and
 using multiprocessing to optimize processing speed, with results stored in CSV format
- Applied **segmentation** and **K-Means clustering with 3D visualizations** to reveal color trends and patterns, which informed the creation of themed outfits
- rishabsudhir.com/fashion-through-data

Frontend May 2023 - Present

iOS Alumni App for Alpha Kappa Psi Business Fraternity

- Built an IOS app using SwiftUI to store and filter through alum relations for approx 400+ Students/Alumni
- Employed a Firebase real-time database to update data in real-time through a Google sheet
- Integrated Firebase Google Sign-In authentication so that BU emails could be used
- rishabsudhir.com/akpsi-bu-app