



Reuben Chatterjee

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EDUCATION

University of California San Deigo

Master of Science in Data Science (GPA: 3.78/4.00)

Courses: Data Science Programming, Numerical Linear Algebra, Probability & Statistics

San Diego, CA

Sep. 2023 – Present

University of Mumbai

Bachelor of Engineering in Computer Engineering (GPA: 3.93/4.00)

Courses: Machine Learning, Artificial Intelligence, Big Data Analysis

Mumbai, India

Aug. 2019 – May 2023

PROJECTS

Climate Change Analysis | *Python Libraries, Jupyter, Regression Models*

Sep. 2023 – Dec 2023

- Developed a data science project analyzing climate change using the NorESM2 model and ClimateBench dataset, employing Python and libraries like Pandas and Numpy
- Built and evaluated a linear regression model to predict global warming based on CO2 emissions, extending the analysis to regional temperature variations by country.
- Created a user-friendly command-line interface for model interaction, enabling prediction of temperature changes from user-inputted CO2 levels and regions.
- Visualized data and regression outcomes to elucidate the relationship between CO2 emissions and temperature changes, enhancing understanding of climate impact.

Student Accommodation Service | *Python, Flutter, NodeJs, Android Studio, MySQL*

Jun. 2022 – May 2023

- Led the development of a roommate matching system using K-means clustering to analyze and group student profiles for compatible living arrangements.
- Employed Principal Component Analysis (PCA) for dimensionality reduction to enhance clustering performance.
- Provided data-driven insights to improve student accommodation experiences, leading to a demonstrable decrease in roommate conflicts and enhanced academic focus.

Netflix Recommendation System | *Python, Pandas, Numpy, Scikit-learn, Collab*

Jan. 2023 – May 2023

- Employed collaborative filtering algorithms using Python and relevant libraries to analyze user preferences and movie ratings data.
- Optimized the recommendation engine to handle large datasets effectively, ensuring high accuracy and low latency in suggestions.

EXPERIENCE

Lead 3D Design Intern

Mar. 2022 – Jun. 2022

The Learning Buddy

Mumbai, India

- Headed the design, prototyping, and creation of- 'BuddyVerse', a rudimentary 3D metaverse for the organization.
- Headed a team of three 3D design Interns.
- Developed interactive AR assets to enhance educational content, leveraging data optimization for real-time performance in mobile applications.
- Modeled and exported 3D assets/models and their animations daily using Blender 3D.
- Worked on the fine tuning of existing 3D models.

Head of Social Media

Jun. 2021 – Jun.2022

CodeX-SFIT

Mumbai, India

- Strategically managed Codex-SFIT's social media platforms (Instagram, LinkedIn, YouTube), leading to a 30% increase in follower count in one year.
- Spearheaded the development and publication of engaging content on Instagram, including technical quizzes, industry tips, and the latest tech news, which enhanced brand visibility and audience interaction.
- Clicked snapshots from various events and workshops held by the committee for documentation and milestones.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, SQL, R

Data Analysis: Statistical analysis, predictive modeling, data mining

Developer Tools: Git, Google Collab, VS Code, Visual Studio, PyCharm, Jupyter, Eclipse

Libraries: Pandas, NumPy, Matplotlib, Scikitlearn, Pytorch, Seaborn, TensorFlow, NLTK, RegEx

Visualisation tools: Tableau, PowerBI, Hadoop, Spark, Hive

Frameworks: React, Node.js, Flutter, Android Studio, Apache, Pyspark