

# AYUSH UPADHYAY

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## EDUCATION

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### ILLINOIS INSTITUTE OF TECHNOLOGY

*Masters in Computer Science*

**Chicago, IL**

August 2023 – May 2025

### CHARUSAT UNIVERSITY

*Bachelors in Computer Science & Engineering*

**Gujarat, India**

November 2020 – May 2023

## PROFESSIONAL EXPERIENCE

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### Data Analyst

*Extern*

**New York, NY**

June 2024- July 2024

- Analyzed esports players' KPIs and training data using Google BigQuery on Google Cloud Platform, increasing data accuracy by 30% through advanced SQL queries.
- Evaluated KPIs for over 5 gamers, focusing on reaction time, accuracy, and win-loss ratios, identifying key performance gaps and enhancing strategies for improvement.
- Improved player performance analysis and optimized training strategies, leading to a 15% improvement in overall player performance.
- Created an interactive dashboard using Microsoft PowerBI, contributing to a 20% increase in esports players joining to improve their gameplay through targeted KPI analysis.

### Data Scientist

*Kintu Design Pvt. Ltd.*

**Gujarat, India**

December 2022- May 2023

- Led a project to detect early signs of mental stress, helping individuals manage stress effectively during the early stages.
- Developed a real-time video-based stress detector using Python, CMake, TensorFlow, and Keras, analyzing data from 30+ videos to accurately assess stress levels.
- Built and implemented chatbots to address users' questions about stress. Conducted a stress test to over 30 students, with 80% reporting reduced stress levels after applying the chatbot's recommended stress-reduction strategies.
- Deployed chatbots on Telegram to reach a large audience and deliver valuable stress-related information.

## PROJECTS

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### Ticket Fusion:

- Developed a platform using ReactJS and CSS where users can view upcoming sports events, select seats, book tickets, and purchase event merchandise.
- Stored over 50 merchandise items and associated user data in Elasticsearch and utilized MongoDB to verify login credentials for hundreds of accounts. Moreover, integrated the Open-Ai chatbot in the project to get the event suggestions from the AI.
- Collected user data, stored it in Excel, cleaned the dataset, and created visualizations to enhance understanding of user trends.
- Built a dynamic Tableau dashboard showcasing users' favorite sports events and locations, revealing insights into the most popular events, locations, and other key information.

### Data Professionals: A Survey-Driven Analysis:

- Leveraged Google's BigQuery to optimize and clean more than 1,500 records in the Data Professional Survey dataset, ensuring accuracy for subsequent analysis.
- Improved data integrity by conducting thorough data cleaning and validation with Google BigQuery, addressing inconsistencies, missing values, and duplicates to ensure a high-quality dataset. Executed data analysis and constructed a comprehensive dashboard using Power BI.

### E-Newspaper Management System:

- Developed an ER-Diagram for the E Newspaper Management System by analyzing 7-9 entities and their attributes to understand the database and system flow.
- Created and inserted over 200 records into the database using MySQL and PostgreSQL. Tested the data with a range of SQL queries to ensure that the results were accurate and consistent.
- Validated the integrity of the database by verifying that all SQL queries returned expected results, resulting in a 100% accuracy rate and ensuring the reliability of the data for future use and analysis.

## TECHNICAL SKILLS

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- **Programming Skills:** Python, R, SQL
- **Skills:** Data Cleaning and Preparation, Data Visualization, Excel, Data Storytelling, Data Collection, Product Analysis, Big Data, Generative AI, Data Pipeline, Relational Database.
- **Tools & Libraries:** Microsoft PowerBI, GitHub, pgAdmin 4, Tableau, Snowflake, MySQL Workbench, Docker.
- **Version control/Management:** Git/ GitHub, Atlassian Jira, Azure DevOps.