HARSHIT VOOTUKURI

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EDUCATION

Vellore Institute of Technology Vellore, Tamil Nadu
B.Tech Computer Science, specialization in Data Science; CGPA 8.93 *2022 – 2026*

FIITJEE Junior College Hyderabad, Telangana
Intermediate Education; Intermediate Public Examination 96.4% *2020 – 2022*

TECHNICAL SKILLS

Languages: Python, Rust, C, C++, R, Javascript
Frameworks and Libraries: Tensorflow, Scikit-Learn, Pandas, Numpy, React, Tailwind CSS
DevOps: Git, Github, Docker

EXPERIENCE

IFB Industries Ltd. June 2024 – July 2024
Data Analytics Intern *Verna, Goa*

- **Data Collection and Cleaning:** Collected, cleaned, and organized large datasets from multiple sources, ensuring data accuracy and consistency. Utilized tools like Python (Pandas, NumPy), SQL, and Excel for data preprocessing and analysis.
- **Research on Seasonality:** Conducted in-depth research on how seasonality affects various business metrics, including sales, customer engagement, and inventory levels. Explored and implemented statistical models such as ARIMA, SARIMA, and seasonal decomposition to analyze seasonal patterns and their impact on business performance.
- **Statistical Modeling and Forecasting:** Applied time series analysis techniques to model seasonal patterns, providing actionable insights to optimize marketing and operational strategies.
- **Geolocation Verification Project:** Developed and implemented a system to verify the latitude and longitude values of store locations, ensuring the accuracy of geospatial data. Utilized Python libraries (Geopy, Pandas) and Google Maps API for geolocation data handling, verification, and visualization.

PROJECTS

CLI-RPG June 2024 – July 2024
Game Developer *Vellore, Tamil Nadu*

- **Project Leadership and Development:** Spearheaded the development of an interactive role-playing game as a **command-line interface (CLI) application** in Rust, leveraging **multi-threading** and efficient **data structures** to enhance performance and manage in-game mechanics seamlessly.
- **Project Management and Integration:** Led the integration of additional games, including **Minesweeper** and a **typing test**, while implementing **background music** using the Rodio crate, showcasing versatility in game development and audio integration.
- **User Experience Design:** Focused on creating engaging, **interactive user experiences** within the CLI environment, with intuitive controls and **responsive gameplay**, prioritizing smooth and immersive player interactions.
- **User Engagement:** Achieved significant adoption among college peers, with **100+ downloads** and an **active player base** within the campus, demonstrating the project's broad appeal and relevance to diverse student interests.

EXTRACURRICULAR

Core Member (Research), ACM-VIT April 2024 – Present

- Actively participated in systems reading groups, ideathons, and project cycles, contributing to research discussions, brainstorming sessions, and collaborative projects.

Core Member, French Literary Association VIT February 2024 – Present

- Organized and conducted educational events on French culture and history, and taught French language classes, enhancing participants' cultural awareness and language skills.