

HARSHIT VOOTUKURI

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TECHNICAL SKILLS

Languages: Python, Rust, Go, R, C/C++, Typescript

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-TOP (CLI Tool for Student Portal)

October 2024

Software Developer

Vellore, Tamil Nadu

- **Technical Development:** Developed a **Golang-based CLI application** for the student portal, designing a robust course material downloader that automated content organization and improved student workflow efficiency.
- **Software Optimization:** Implemented **performance optimizations** across the application, significantly reducing respond times.
- **User Adoption and Interface Design:** Designed an intuitive command-line interface that drove organic user adoption, achieving **100+ active student users** without formal marketing.
- **Documentation and Knowledge Sharing:** Authored comprehensive developer documentation covering codebase architecture, setup procedures, and contribution guidelines to facilitate project maintenance and onboarding of new contributors.

CLI-RPG (CLI game built in Rust)

June 2024

Game Developer

Vellore, Tamil Nadu

- **Project Leadership and Development:** Spearheaded the development of an interactive role-playing game as a **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.

EDUCATION

Vellore Institute of Technology <i>B.Tech Computer Science, specialization in Data Science; CGPA 8.93</i>	Vellore, Tamil Nadu 2022 – 2026
FIITJEE Junior College <i>Intermediate Education; Intermediate Public Examination 96.4%</i>	Hyderabad, Telangana 2020 – 2022

EXTRACURRICULAR

Core Member (Research), ACM-VIT <ul style="list-style-type: none">Organized Cryptic Hunt 3.0, a premium event in Gravitass'24.Actively participated in systems reading groups, ideathons, and project cycles, contributing to research discussions, brainstorming sessions, and collaborative projects.	April 2024 – Present
Core Member, French Literary Association VIT <ul style="list-style-type: none">Organized and conducted educational events on French culture and history, and taught French language classes, enhancing participants' cultural awareness and language skills.	February 2024 – Present