

RITOSUVRA RAY

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Experience

Mu Sigma

Trainee Decision Scientist

Jun 2025 – Present

Full Time

- Conducting user retention and customer churn analysis using Python, SQL, and statistical modeling.
- Designing end-to-end interactive dashboards in React integrated with Flask and REST APIs for business insights.
- Performed EDA on large-scale datasets to identify key engagement drivers.
- Developed automated data validation scripts and A/B testing pipelines.
- Collaborated with cross-functional teams translating findings into business recommendations.

Skills

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|----------------------------------|---------------------------|-----------------------|-----------------------------|
| • Data Structures | • Algorithms Analysis | • Web of Things & IoT | • Cyber Security Essentials |
| • Data Mining & Machine Learning | • Database Management | • Computer Networks | • Cloud Computing |
| | • Full Stack Technologies | | • DevOps |

Projects

T-Rex Game with Database Integration | Java, Swings, MySQL

February 2024

- A solo project. Implemented a Java-based Trex game with interactive gameplay mechanics, including obstacle avoidance and high-score tracking.
- Integrated a MySQL database to persist user profiles, high scores, and game configurations, ensuring data integrity and persistence.
- Designed and implemented database access classes to facilitate seamless interaction between the game application and the underlying database, enabling features like user registration, high-score retrieval, and session tracking.

CMS Development using BERT | Python, Flask, React

December 2023

- Supervised the refinement of the CMS by integrating BERT's pre-trained models, leading to a 20% increase in user engagement with suggested content.
- Implemented BERT-based models for personalized content recommendations. Enhanced user experience by suggesting relevant content based on interactions and preferences.
- Leveraged BERT for semantic search and query understanding. Enhanced search accuracy and relevance within the CMS using BERT-based models.

AI-Driven Traffic Management System | Python, Flask, React

October 2024

- Developed an AI-driven traffic management system leveraging Python and the YOLO model for real-time video feed analysis, enabling dynamic traffic monitoring and intelligent decision-making.
- Designed a user-friendly web interface using React and Vite, offering live traffic visualizations, congestion alerts, and real-time route optimization for users and traffic authorities.
- Implemented features like dynamic signal timing adjustments, multimodal transport integration, and emergency vehicle route prioritization to enhance urban mobility and road safety.

Technical Skills

Languages: Python (Py3), Java, C/C++, HTML/CSS, JavaScript, SQL, Bash

Developer Tools: VS Code, Eclipse, Android Studio, PyCharm, Docker, Git, GitHub

Technologies/Frameworks: Excel, Power BI, Tableau, Linux, React, Express, Node, Angular

Education

New Horizon College of Engineering

Bachelor of Engineering in Computer Science & Engineering

Dec 2021 – Jun 2025

Bengaluru, KA