

# CHARAN SOMALARAJU

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## Education

### University at Buffalo

*Masters in Artificial Intelligence*

**Aug. 2024 – Present**

*Buffalo, New York*

### VIT University

*B.Tech in CSE(AI ML) Grade - 8.7*

**Aug. 2019 – May 2023**

*Chennai, India*

## Relevant Coursework

- Artificial Intelligence
- Machine Learning
- Natural Language Processing
- Deep Learning
- Computer Vision
- Cognitive Systems

## Experience

### ORACLE(OFS)

*Associate Consultant*

**JUL 2023 – August 2023**

*Bangalore, India*

- Supported Citibank client across the EMEA region by designing and modifying frontend interfaces using Form Builder.
- Developed and tested the OBCL product, advancing from the current product to improve functionality.

### AB-InBev

*Data Scientist Intern*

**Jan 2023 – August 2023**

*Bangalore, India*

- Designed, developed, debugged, tested and deployed the project **Empties return Forecasting** in Africa Logistics Analytics.
- I achieved an accuracy of 91 a significant improvement over the previous 67.
- Worked on a **Materials Planning** project in Africa to reduce costs by identifying and focusing on key issues across countries, breweries, and SKUs according to client requirements.

## Publications

### Recommendation using Improved Apriori Algorithm | *Python, Machine Learning*

**May 2022**

- Proposed a model using the Apriori algorithm and chi-squared test to identify seasonal transaction patterns, like festival transactions that occur annually.
- Utilized the chi-squared test to detect these seasonal transactions and, if none were found, recommended products based on the traditional Apriori algorithm.

## Projects

### Motion Detection with Face recognition | *Python, Machine Learning, Computer Vision*

**Jun 2021**

- Utilized OpenCV and Python to detect faces and track movements, tailored for organizations with a fixed headcount.
- Recorded individual information in a secure SQL database to monitor entry and exit times, enhancing security and operational efficiency.

### Explorer News | *Algorithms, HTML, CSS, Ensemble methods*

**October 2020**

- Integrated a Gradient Boosting machine learning algorithm for fake news detection, achieving a remarkable 94 accuracy rate.
- Used JavaScript, HTML, and CSS for frontend development, with SQL for backend implementation.

## Technical Skills

**Languages:** Python, C, SQL, HTML/CSS

**Frameworks:** Angular, Scikit, NLTK, SpaCy, TensorFlow, Keras, Matplotlib, Seaborn

**Tools:** Jupyter Notebook, Google colab, Eclipse, MySQL, VSCode.

## Certifications

- Amazon web services Cloud Practitioner
- Python for Everybody
- Software Development Processes and Methodologies
- AI for Everyone
- Generative Adversarial Networks (GANs) Specialization