

Nandini Thimmireddy Gari

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Summary

Graduate student in Computer Science with a strong passion for data science, analysis, visualization, machine learning, and artificial intelligence. Eager to apply expertise in Python, Power BI, and machine learning models to solve complex problems and drive innovation in data-driven fields.

Experience

Data Analyst Summer Intern, Apollo Hospitals Pvt, Ltd. | *Python, Power BI, Excel* May 2024 – Aug 2024

- Conducted a comprehensive customer segmentation analysis using RFM with quartile ranges and k-means clustering, and presented insights via Power BI dashboards. Achieved a **15% increase in marketing campaign efficiency** by identifying high-value customer segments.
- Optimized supply chain processes by applying advanced inventory management techniques and seasonality forecasting, leading to a **10% reduction in stockouts and 5% cost savings**

Data Science Training Intern, APSSDC and Indo-Euro Synchronization Pvt, Ltd. | *Python* May 2022 – Aug 2022
, *Tableau, R, Machine learning models*

- Conducted comprehensive data analysis projects, including student performance analysis using classification techniques, and compared **PCA and t-SNE for data visualization** with **K-means and Linear SVC** to evaluate model accuracy and cluster integrity
- Executed web scraping with R to extract specific information from websites, overcoming challenges in pagination and data consistency

Publications

A Comparison of Various Class Balancing and dimensionality reduction techniques on Customer Churn prediction 10.1109/ICRAIE56454.2022.10054321 Dec 2022

Accepted by 2022 IEEE 7th International Conference on Recent Advances and Innovations in Engineering. Won Gold Medal in Research Day held in SRM University AP.

Projects

AI in Architecture: Self-Organizing Plans | *Generative AI Models* Apr 2024

- Contributed to a term project focused on creating self-organizing architectural floor plans using advanced machine learning models, including **GNN, GAN, and VAE**
- Leveraged the House-GAN dataset to train models that optimize spatial arrangements and generate design outputs
- Enhanced the overall effectiveness of automated floor plan generation by integrating GAN and VAE models, demonstrating the potential of these technologies in advancing computational design for architecture

Customer Churn Prediction | *Python library - sklearn, Machine learning models* Apr 2024

- Developed and optimized machine learning models, achieving a **94% accuracy rate using Random Forest and Random Over Sampling**, surpassing existing Kaggle benchmarks
- Applied advanced feature selection, resampling techniques, and hyperparameter tuning with GridSearchCV

Financial Reporting System Dashboard | *Power BI, Excel* Aug 2023

- Developed a Power BI solution for financial reporting, integrating data from multiple sources. Streamlined reporting, improved data accuracy, and provided actionable financial insights
- Implemented key performance indicators (KPIs), resulting in a **10% improvement in budget adherence** and enhanced financial health monitoring

Education

New Jersey Institute of Technology, MS in Computer Science Expected Dec 2024

- GPA: 3.8/4.0

SRM University, B. Tech, Computer Science with Big Data Analytics Jun 2019 – May 2023

- GPA: 8.76/10

Technologies

Programing: Python, R, Javascript, HTML, CSS, PHP, Java

Libraries/Frameworks: Sklearn, Seaborn, Pandas, Plotly, Mathplotlib, TensorFlow, Keras, PyTorch

Tools/cloud: MySQL, Excel, Power BI, Tableau, Apache Hive, Hadoop, AWS

Certifications Google Data Analytics Professional Certificate, IBM Data Analytics Professional Certificate