

VISHNU SAKINAM

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Experience

Mindtree

Data Science and Machine Learning Intern

Sept 2022 -May 2023

- Contributed for the development and deployment of machine learning models and data-driven solutions to solve business problems.
- Developed and optimized machine learning algorithms using python and R, focusing on supervised and unsupervised learning techniques.
- Successfully developed a customer segmentation model that improved targeted marketing efforts, resulting in 12% increase in conversion rates.
- Automated the data preprocessing pipeline, reducing data preparation time by 30% and improving overall project efficiency.

SKILLS

- **Data Engineering:** Hadoop, Spark, Azure, SQL, Data Architectures
- **Data Science:** Artificial Neural Networks, Python, R, MATLAB, Predictive Modeling, Machine Learning
- **Data & Analytics:** PowerBI, Tableau, Big Data, Reporting & Analytics, Data Warehousing
- **Others:** Chatbots, Cloud Computing, Advanced Database Technologies

ACADEMIC PROJECT EXPERIENCE

Data Scientist

Heart Disease Prediction using Machine Learning

Jan 2022 – April 2022

- Collected and preprocessed data from the UCI Machine Learning Repository's heart disease dataset, performing tasks such as data cleaning, normalization, and handling missing values.
- Conducted exploratory data analysis (EDA) to identify key features contributing to heart disease risk, using Python libraries such as Pandas, Matplotlib, and Seaborn.
- Applied feature selection techniques, such as correlation analysis and recursive feature elimination, to improve model accuracy and reduce overfitting.
- Obtained 87.5% accuracy for random forest which is highest among all other algorithms.

Data Analyst

Conducting an EIA and proposing mitigation strategies for current and future cloud-based machine learning

Sept 2023 – Dec 2023

- Gathered data on energy consumption carbon footprint, and resource utilization from cloud service providers such as AWS, Azure and Google Cloud, focusing on their machine learning infrastructure.
- Analyzed the environmental impact of different machine learning algorithms and cloud configurations including CPU, GPU and TPU usage.
- Reduced cloud-based machine learning energy consumption by 15% through optimized resource allocation and more efficient algorithm use.
- Forecasted a 20% reduction in future carbon emission by adopting renewable energy-backed cloud services and more efficient data handling practices.

Education

- **University of South Dakota** | M.S in Computer Science | GPA: 3.6/4.0

Aug 2023 - Present