
SNEHARDHI DEVARAPALLY

EDUCATION

New Jersey Institute of Technology

Masters in Computer Science, September 2023 - Present

Coursework: Data Structures & Algorithms, Data Analytics with R, Intro to Big Data, Cloud Computing, Web Systems

Malla Reddy College of Engineering and Technology, India

Bachelor of Technology, August 2019 - April 2023

Coursework: Database Management, Compiler Design, Operating Systems, Java Programming

EXPERIENCE

Data Analytics Intern, Tata Consultancy Services (TCS), India

May 2022 - October 2022

- Developed a real-time stock market analytics dashboard using Python, Dash, and Plotly to process live data, implement financial indicators (SMA, EMA, RSI), and create interactive visualizations for tracking stock performance.
- Optimized data cleaning, preprocessing, and alert systems for significant market events, providing actionable insights to clients and improving decision-making efficiency.

PROJECTS

Diabetes Prediction Using Random Forest Algorithm

- Developed a diabetes prediction model using the Pima Indian Diabetes Dataset, applying machine learning techniques like decision trees, logistic regression, and support vector machines.
- Conducted feature engineering and data preprocessing to optimize the dataset, ensuring robust performance evaluation through cross-validation and model tuning.

Big Data Analysis of Airline Performance on Hadoop

- Developed and implemented an Oozie workflow to process and analyze 22 years of airline flight data using Hadoop on AWS virtual machines.
- Optimized distributed data processing by progressively increasing VM clusters and analyzing workflow execution times across various system scales.

House Price Prediction Model

- Developed a predictive model for house prices using machine learning algorithms, including feature engineering, data preprocessing, and hyperparameter tuning.

SKILLS

- **Programming Languages:** Python, R, Java
- **Visualization Tools:** Dash, Plotly, Matplotlib
- **Machine Learning:** Scikit-learn, TensorFlow
- **Big Data Technologies:** Hadoop, Oozie, MapReduce, AWS
- **Database Management:** SQL, MySQL
- **Tools:** Git, Jupyter Notebooks

CERTIFICATIONS

- **Introduction to HTML5** - University of Michigan (Coursera)
- **Machine Learning for All** - University of London (Coursera)
- **Getting Started with AWS Machine Learning** - AWS (Coursera)

PUBLICATIONS

Diabetes Prediction Using the Random Forest Algorithm and Machine Learning

- Redesigned and implemented a machine learning-based diabetes prediction model using the Pima Indian Dataset, analyzing medical records to detect hidden patterns and forecast diabetes risk.