Sumanth Reddy

Data Scientist

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Profile

Dedicated and enthusiastic Data Science professional with 1 year of hands-on experience as a Trainee at Learnvista Private Limited. Possess a strong educational background with a B.Tech in Computer Science and Engineering. Proficient in various data science skills including data analysis, machine learning, statistical modeling, and data visualization. Successfully completed projects demonstrating ability to derive actionable insights from data. Highly motivated and passionate about leveraging data science to solve complex problems and drive business value.

Skills

Data Analysis - Machine Learning - Statistical Modeling - Data Visualization - Python - SQL - Big Data Technologies (Hadoop, Spark) - Data Wrangling and Cleaning - Exploratory Data Analysis (EDA) - Model Deployment and Monitoring - Artificial Intelligence - Business Intelligence - Data Engineering

Project Experience

Claim Prediction *(Link)*

- Develop a predictive model that assesses car insurance policy claims probability. The objective would be to understand the factors that influence claim frequency and severity in six months and enable insurance companies to better assess risk and determine appropriate premiums for policyholders.

- Technologies Used: Python, Machine Learning, Django, Html, CSS, javascript.

- Key Features: Developed a predictive Machine Learning model that estimates the likelihood of an insurance claim.

- Achievements: Enabled clients to reduce overspending by 25% on average.

Churn Prediction *(Link)*

- Developed a predictive churn model using Python and scikit-learn to identify at-risk customers, improving retention by 15

- Technologies Used: Python, Machine Learning, Django, Html, CSS, javascript.

- Key Features: Developed a predictive Machine Learning model that estimates the likelihood of an insurance claim.

- Achievements: Achieved a 15% improvement in customer retention and reduced churn prediction error by 10%.

Car Price Prediction *(Link)*

- Developed a car price prediction model using the Car Price Prediction dataset to estimate vehicle values based on features like make, model, and mileage.

- Technologies Used: Python, Machine Learning, Django, Html, CSS, javascript.

- Key Features: Developed a predictive Machine Learning model that estimates the likelihood of an insurance claim.

- Achieved a prediction accuracy of 90% and provided insights into factors affecting car prices.

- **Deep Learning Face Mask Detection Using Yolo V5.** This study explores YOLOv5-based face mask detection during the COVID-19 pandemic, finding the 300epoch model to perform best with 96.5% accuracy. Thanks to their filter-based feature extraction, CNNs excel in image analysis with minimal preprocessing.

Education

B Tech, Computer Science and Engineering(Data Science) *JNTUA*   **Andhra Pradesh, India** *2019-2023*

- Sree Rama Engineering College, Tirupati, Andhra Pradesh/India.

- Graduated: May 2023

- CGPA: 7.4/10.0

- Relevant Courses: Data Structures and Algorithms, Operating Systems, Database Management Systems, Artificial Intelligence.

Extra Curricular Activities

BCG Data Science Job Simulation on Forage - July 2024 *(Link)*
- Completed a customer churn analysis simulation for XYZ Analytics,
- demonstrating advanced data analytics skills, identifying essential client data and outlining a strategic investigation approach.
- Conducted efficient data analysis using Python, including Pandas and NumPy. Employed data visualization techniques for insightful trend interpretation.estimates the likelihood of an insurance claim.
- Completed the engineering and optimization of a random forest model, achieving an 85% accuracy rate in predicting customer churn.
- Completed a concise executive summary for the Associate Director, delivering.
- actionable insights for informed decision-making based on the analysis.

Tata Data Visualisation: Empowering Business with Effective Insights Job Simulation on Forage-July 2024 *(Link)*
- Completed a simulation involving creating data visualizations for Tata Consultancy Services.
- Prepared questions for a meeting with client senior leadership.
- Created visuals for data analysis to help executives with effective decision-making.

Online Courses & Certifications

- Introduction to Python Programming Language - PerfectPlanB
- Data Structures in Python - PerfectPlanB
- Object Oriented Programming in Python - PerfectPlanB
- Machine Learning in Python - PerfectPlanB