**MANISH CHAVA**

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# EDUCATION

**M.S in Data Science,** University at BuffaloSUNY **Aug 2022 – Dec 2023** (Graduation date 1st January 2024)

**B. Tech in Computer Science Engineering,** Gitam University, Hyderabad, India **Jun 2018 - Apr 2022**

**WORK EXPERIENCE**

**GALLANTT ISPAT LTD Gurgaon, India**

**Data Engineer Intern Mar 2022 – Jul 2022**

**Junior Data Analyst Intern Mar 2021 – Jul 2021**

**.** Responsible for Executing complex data queries using SQL for providing actionable insights, that directly influenced and improved the decision-making process.

**.** Performed ETL (Extract-Transform-Load) operations and successfully ensured accuracy, consistency, and reliability in the data.

**.** Developed tableau dashboards with KPIs to make sure data visualizations aligned with business objectives facilitating swift and informed decision making.

**.** Carried out in-depth Exploratory Data Analysis (EDA) for identifying anomalies and patterns, leading to better data-driven decision making.

**.** Performed suitable statistical tests for making proper inferences, validating assumptions and draw conclusions from the data.

**PERSONAL PROJECTS**

**. Pneumonia Prediction using X-Ray images:** A robust CNN (Convolutional Neural Networks) model was implemented to facilitate the detection of pneumonia in human X-Ray Images. The model is cultivated with transfer learning to build VGG16 architecture Model that produced an accuracy of 98.2%, loss of 4.96%

and validation accuracy of 93.7%.

**. Car Resale price prediction:** An OLS model was designed that is competent of efficiently estimating the price of used cars.

**. Sales Dashboard - Tableau:** A dynamic and interactive dashboard was developed for analyzing the customers purchase behavior and track sales performance based on multiple metrics. Unraveled hidden trends and insights for making crucial business decisions.

**ACADEMIC WORK**

**. Airbnb customers EDA and destination prediction:** Detailed analysis of Airbnb customers data to gain insights into their preferences and behaviors. Employed EDA techniques to unravel customers behavior and popular destinations. Developed a predictive model capable of determining customers likely destination based on historical data.

**. Database Designing:** Designed a comprehensive database schema from scratch by following all the database design principles.Converted the raw data from text files into structured tables by performing data cleaning and data indexing operations. Through this the data retrieval and data analysis processes were streamlined.

**PUBLICATIONS AND RESEARCH EXPERIENCE**

**.** Dr. Radha K, Manish C, Aman A. “Ensemble Learning vs ANN Approaches to Network Based Intrusion Detection System.” IJCST, Volume 10, Issue 04, Jul-Aug 2022, pages 87-91.

**.** Accomplished in creating an effective Machine Learning model for identifying intrusions in a computer network.

**.** Analyzed the performance of XGBoost, Random Forest and ANN models in building a system that can be deployed to administer over traffic and expose any network attacks.

**TECHNICAL SKILLS**

# . Programming and Libraries: Python, R, JAVA, PL/SQL,MATLAB (Basics), PySpark, Hadoop, Flask, TensorFlow, keras, PyTorch.

**. Developer Tools:** MYSQL Workbench, Tableau, snowflake,Microsoft Excel, IBM Cognos BI**.**

**. Numerical skills:** Statistical model building, Probability theory, Time series Forecasting, Deep Learning.