**MANISH CHAVA**

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**SUMMARY**

Passionate Data Science Graduate with a flair for turning raw data into actionable insights. Holding close to 2 years of professional experience in Data Science. Proficient in Python, JAVA, PL/SQL, Oracle, and machine learning.

**EDUCATION**

**M.S in Data Science,** University at Buffalo,SUNY. **Aug 2022 – Dec 2023**

**B. Tech in Computer Science Engineering,** GITAM University. **Jun 2018 - Apr 2022**

**WORK EXPERIENCE**

**HELICAL IT SOLUTIONS PVT LTD Hyderabad, India**

**Data Analyst Intern Jan 2021 – Jul 2022**

* Developed Tableau dashboards, aligning visualizations with business objectives, enabling swift decision-making and improved business performance.
* In-depth exploratory data analysis to identify patterns and anomalies, guiding the organization to discover threats and new opportunities.
* Conducted relevant statistical tests to validate assumptions and make accurate inferences, ensuring quality and optimizing performance.
* Used SQL for complex data queries, to make informed decisions that directly improved the organization's operational efficiency.
* Ensured data consistency and accuracy via ETL operations that enhanced data integrity and decision-making process.

# ACADEMIC WORK

**Airbnb Customers EDA and Destination Prediction**

* Utilized Flask web framework for deploying a robust predictive model.
* Leveraging Python employed data visualization and Exploratory Data Analysis for in-depth analysis.
* Built a classification model to predict the holiday destinations of customers.
* Offered a highly reliable solution tailored for Airbnb.

**Database Development for IPL Sports Franchise Data**

* Tackled the challenge of building a powerful database for IPL sports franchise data.
* Designed an effective schema, ensuring adherence to database design principles.
* Converted raw text data into structured tables using python and SQL for efficient data management.
* Streamlined data retrieval and analysis processes for improved efficiency.
* Resulted in a secure and reliable database, ready for sports analytics.

**PERSONAL PROJECTS**

**Pneumonia Prediction using X-Ray images**

* Automated pneumonia detection in X-ray images.
* Used the PyTorch library for CNN model development utilizing transfer learning (VGG16).
* Surpassed less efficient traditional methods with a 98.2% accurate CNN model.
* Enhanced efficiency for healthcare, insurance policies, and Pharmaceuticals.

**Car Resale price prediction**

* Developed a well-constructed regression model for predicting car resale values with 80% accuracy.
* Collected, cleaned, and visualized data for analysis.
* Implemented the Ordinary least squares (OLS) approach for model building.
* Crafted a consistent solution to simplify the car resale business.

**Sales Dashboard – Tableau**

* Produced an interactive dashboard for analyzing customer purchase behavior and tracking sales performance.
* Unveiled hidden insights and trends to empower informed decision-making.
* Conducted year-by-year sales analysis using the interactive features.
* Provided geospatial insights for a comprehensive view of sales data across locations.
* Enhanced sales and inventory analysis through the dashboard.

**PUBLICATIONS AND RESEARCH EXPERIENCE**

Published research paper "Ensemble Learning vs ANN for Network-Based Intrusion Detection" in IJCST (Jul-Aug 2022), comparing XGBoost, Random Forest, and ANN models for an effective Network-based intrusion detection system.

**TECHNICAL SKILLS**

**Programming and Tools:** Python, JAVA, R, PL/SQL, Oracle, Snowflake, Tableau, Hadoop, Spark, TensorFlow, Keras, PyTorch.

**Numerical Skills:** Statistics, Probability Theory for Machine Learning**,** Time series analysis.