Manisha Lagisetty

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Work Experience:

Programmer Analyst, Cognizant Technologies – Hyderabad, India **Oct 2018 – Jun 2022**

- Analyzed intricate healthcare data from diverse data sources, extracted key insights relating to insurance coverage, claims coverage and recommended data-driven policies that reduced monetary risk to the business.
- Implemented SQL based business rules and logic to automate and optimize strategies within the healthcare operations, resulting in 25% cost reduction and significantly improved productivity.
- Developed relevant KPIs to measure performance and created insightful dashboards for transparency and business strategy. Collaborated in cross-functional teams to enhance segmentation models, reflecting shifting the customer needs and market trends to improve business performance.

Skills:

- **Programming and Scripting:** Python (NumPy, Pandas, Seaborn, Matplotlib, OpenCV, Scikit-Learn, PyTorch), SQL (MySQL), Snowflake (Data Warehousing)
- **Cloud Platforms, Visualization, and Big Data Tools:** AWS, Azure, Tableau, Spark, Kafka, Hadoop
- **Machine Learning and Deep Learning:** Regression, Classification, CNNs, GANs, NLP
- **Version Control and Other Tools :** Git, GitHub, SQL Workbench, Microsoft Office Suite, Trello
- **Certifications :** AWS Certified Cloud Practitioner (CLF-C02), Certified Microsoft Azure Fundamentals (AZ-900)

Projects:

Sustainable Future through Natural Disaster Prediction **Oct 2023 – Dec 2023**

- **Problem:** Enhancing global resilience to predict future natural calamities, giving early warnings for proactive actions.
- **Approach:** Evaluating models to predict natural disasters using historical data, ensuring reliability and accuracy.
- **Outcome:** Developed predictive models for providing actionable insights and actions to enhance resilience, sustainability.
- ***Tools used:*** *Python (Pandas, Scikit-Learn, Matplotlib, Seaborn), Machine Learning(Classification, Time-Series Analysis)*

Predicting Crime and Proposing Safer Neighborhoods **Oct 2023 – Dec 2023**

- **Problem:** Developing a predictive analysis system to identify high-risk areas and propose data-driven strategies.
- **Approach:** Analyzing historical crime data, identify patterns, and develop predictive models using data analysis techniques.
- **Outcome:** Achieved 91% F1-Score with Tree based models, optimizing resource allocation, and analytical strategies.
- ***Tools:*** *Python (Pandas, Scikit-Learn, Matplotlib, Seaborn), Machine Learning(XGBoost, Random Forest, Decision Tree)*

Wine E-Commerce Application **Jan 2023 – May 2023**

- **Problem:** Understanding trends in advanced marketing strategies and revenue analysis to identify trends and potential issues
- **Approach**: Designing integrated and interactive analytical application for monitoring KPI performance and insights into customer actions.
- **Outcome:** Built an application offering ETL-driven analytics, empowering strategic decision-making for business.
- ***Tools:*** *Python(PyQt5 GUI, NumPy, Pandas), MySQL, SQL Workbench*

A Cross Country Region Wise Analysis of Adolescent Delinquency **Jan 2023 – May 2023**

- **Problem:** Understanding the underlying causes of juvenile delinquency and identifying potential interventions.
- **Approach:** Analyzing large-scale adolescent delinquency datasets using Tableau's data visualization and statistical analysis to identify correlations, patterns, and hotspots of delinquent behavior.
- **Outcome:** Delivered actionable insights through interactive dashboards and visualizations facilitating evidence-based decision-making.
- ***Tools:*** *Tableau, Python(Pandas, NumPy)*

Travel Recommendation System **Oct 2023 – Dec 2023**

- **Problem:** Design an advanced analytics-driven travel recommendation system to streamline planning, delivering personalized suggestions tailored to individual preferences.
- **Approach:** Analyzing complex data sets from various sources to identify patterns, trends, and insights enabling personalized recommendations through content-based and collaborative filtering methods.

- **Outcome:** Enhanced travel guidance by delivering precise and tailored suggestions, enhancing user satisfaction through data-driven decision-making and optimized performance.
- ***Tools:*** *Python (Pandas, Matplotlib, Seaborn), Machine Learning*

AI-Driven Application for Diabetes Care Predictive: Analysis and Personalized Recommendations **Jan 2024 – May 2024**

- **Problem:** Enhance diabetes care through predictive analytics and offer personalized recommendations
- **Approach:** Employing machine learning algorithms to predict diabetes risk using individual health data, ensuring reliability and accuracy.
- **Outcome:** Developed a user-friendly application that offers accurate predictions and personalized recommendations, empowering individuals to manage their diabetes effectively.
- ***Tools:*** *Python (Pandas, Matplotlib, Seaborn, streamlit), Machine Learning and Data Mining techniques*

The Learning Agency Lab: PII-Data-Detection (Kaggle Competition) **Jan 2024 – May 2024**

- **Problem:** Develop a model that detects personally identifiable information (PII) in student writing.
- **Approach:** Leveraging state-of-the-art natural language processing techniques to analyze text and identify patterns indicative of PII, such as names, email addresses, and identification numbers.
- **Outcome:** Developed an effective PII detection model that enhances data privacy measures in educational settings, contributing to a safer learning environment
- ***Tools:*** *Python, Natural Language Processing (NLP) techniques, Deep Learning(DistilBERT)*

Education:

Master of Science in Data Analytics, San Jose State University, San José, California **Jan 2023 – Dec 2024**

- **Relevant Coursework:** Database Systems for Analytics, Math Methods for Data Analytics, Data Visualization, Big Data Technologies, Data Mining, Machine Learning Technologies, Deep Learning Technologies

Bachelor of Computer Science & Engineering, GITAM University, India **Jun 2014 – Apr 2018**

- **Relevant Coursework:** Implemented Authorship Attribution using K-Means Clustering for Capstone Project