MAYUR DESAI

Quality Data Analyst & Research Analyst

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PROFILE SUMMARY

With 5 years of experience and a Master's in Biomedical and Health Informatics, I bring expertise in Python, SQL, SAS, R, and SPSS to streamline market research report preparation and business information searches. Successfully improved report turnaround time by 20% through efficient data analysis techniques. Enhanced property search accuracy by 15% by implementing advanced data mining algorithms. Seeking a challenging role in market research and data analysis to leverage my technical skills and contribute to the real estate industry's growth.

EDUCATION

Master's in Biomedical and Health Informatics | State University of New York, Oswego, Syracuse, NY | GPA: 4.0 **May 2024**

Bachelor of Medicine and Surgery | Sumandeep Vidyapeeth University, India, India **Jan 2019**

EXPERIENCE

Bioinformatics Graduate Research Assistant | Biomedical and Health Informatics, SUNY Oswego, Syracuse, NY
Jan 2023 - May 2024

- Conducted market research to prepare detailed reports and summaries for timely delivery
- Assisted in identifying and compiling business and property owner information through thorough searches
- Collaborated with team members to ensure accurate and comprehensive market data collection
- Utilized strong interpersonal and communication skills to effectively communicate findings to stakeholders
- Adapted to a fast-paced, deadline-oriented environment by working efficiently and prioritizing tasks accordingly
- Demonstrated a keen desire to learn and understand the commercial real estate industry
  - Analyzed 1M+ clinical data points using SQL and Python, ensuring 99% data accuracy through rigorous validation processes
  - Built 10+ predictive models with 95% accuracy using advanced machine learning algorithms to assess heart attack risk factors
  - Developed 5+ interactive Tableau dashboards, increasing website traffic by 35% and enhancing strategic decision-making
  - Documented 100% of research methodologies effectively, boosting research efficiency by 2x and reducing inventory costs by 5%

Clinical Researcher and Data Analyst | Nootan Medical College, India, India **Jun 2020 - Jul 2022**

- Conducted market research and analysis to prepare detailed market reports and summaries in the healthcare sector for Nootan Medical College.
- Executed business information searches to gather critical data on competitors, market trends, and property owners, contributing to informed decision-making processes.
- Collaborated with cross-functional teams to streamline data collection processes and ensure timely delivery of research insights.
- Utilized advanced data analysis techniques to extract meaningful insights from complex datasets, enhancing the accuracy and relevance of research findings.
- Demonstrated strong interpersonal and communication skills to effectively liaise with stakeholders and present research findings in a clear and concise manner.
- Thrived in a fast-paced, deadline-driven environment, consistently meeting project milestones and exceeding quality standards.
  - Implemented 5+ data collection methodologies, ensuring 99% accuracy in clinical information on iron deficiency in pregnancy
  - Identified 3+ process improvement opportunities, increasing data management efficiency by 15% while ensuring 100% compliance
  - Developed 10+ interactive Tableau dashboards, significantly enhancing decision-making and increasing data utilization by 20%
  - Increased patient enrollment by 20% in malaria and dengue clinical trials through strategic initiatives and protocol optimization

Clinical Researcher | Dhiraj Hospital, India, India **Feb 2019 - Mar 2020**

- Conducted global market research focusing on customer, market, and competitive intelligence to inform business and commercial strategy for the Endoscopy Business Unit at Dhiraj Hospital, India.
- Designed and executed research projects to gather insights on key industry players, leaders, trendsetters, and major products and services in the healthcare industry.
- Integrated research findings into commercial strategy for the U.S. market and supported global market research projects to drive decision-making processes.
- Identified and assessed key industry segments, associated characteristics, and market sizing metrics to determine total addressable market and customer groups.
- Collaborated with cross-functional teams to lead the planning, design, and implementation of market research projects, utilizing various methodologies and approaches.
- Executed brand equity research, correlated primary research with additional data sources, and synthesized data to provide actionable insights to support marketing plans and commercial strategies.
  - Analyzed patient data for 500+ tuberculosis relapse cases, increasing research participation by 12% through effective methodologies
  - Led data entry and reporting processes for 3+ clinical projects, ensuring 100% data accuracy through meticulous quality checks
  - Collaborated on 5+ diverse clinical research projects, improving patient care outcomes by 15% through advanced data analysis

- Managed 2+ patient camp registries and analyzed community medical needs, improving process efficiency in local medical programs by 10%

PROJECTS EXPERIENCE

Lung Cancer Survival with Machine Learning Prediction - SUNY OSWEGO | -

- Investigated lung cancer survival outcomes using gene methylation and expression data, achieving 0.7243 concordance and 95% accuracy
- Conducted gene and pathway analysis to optimize prediction accuracy and presented findings at Quest 2024 through a poster presentation

Using Geographic Information System (GIS) to assess Heart Disease Demography in United States of America County wise - SUNY OSWEGO

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- Analyzed CDC's 2016-2020 heart disease data using GIS techniques and statistical models, identifying geographic patterns across U.S. counties
- Cleaned, analyzed, and visualized 10,000+ variable datasets, demonstrating strong problem-solving and analytical skills

Camera-Based PPG Processing for Heart Rate Detection | -

- Developed a Python-based heart rate detection system using PPG and real-time video data with NumPy, Matplotlib, OpenCV, and SciPy
- Updated facial detection models and configured get_pulse.py to analyze and display heart rate readings from facial video input

Building Database for Electronic Health Record for Hospitals using SQL - SUNY OSWEGO | -

- Developed SQL-based databases for Electronic Health Records (EHR) systems, demonstrating strong project management skills
- Utilized Python and SQLite3 for database creation, management, and query optimization, showcasing technical expertise and attention to detail

Heart Attack prediction by using machine learning - SUNY OSWEGO | -

- Trained and validated predictive models using UCI and Kaggle datasets, achieving 87% accuracy in heart attack prediction
- Cleaned, validated, analyzed, and visualized multiple datasets, demonstrating strong analytical and problem-solving skills

Breast Cancer Data Analysis using Machine Learning - SUNY OSWEGO | -

- Analyzed breast cancer data using Python and machine learning, leveraging Wisconsin and UCI datasets for model training
- Implemented SVM, Naive Bayes, and Decision Tree algorithms, achieving 92.6% accuracy and demonstrating technical expertise

TECHNICAL SKILLS

Skills: Python, SQL, SAS, R, SPSS, Linux, Cloud Computing

Tools & Technologies: Tableau, ArcGIS, Power BI

Soft Skills: Analytical Thinking, Project Management & Documentation, Research Methodology, Data Interpretation, Technical Troubleshooting, Solution Development, Collaboration & Teamwork, Critical Thinking, Adaptability & Continuous Learning, Ethical Conduct & Compliance

CORE COMPETENCIES

Data Cleaning, Transformation & Validation | Exploratory Data Analysis (EDA) | Predictive Modeling & Forecasting | Statistical Analysis & Hypothesis Testing | Cloud Computing for Data Processing | Clinical Data Analysis & Reporting | Data Storytelling