Kusuma Korada

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LinkedIn | GitHub | Portfolio

SUMMARY

Aspiring Data Analyst with a strong foundation in data analysis, healthcare technology, and artificial intelligence. Experienced in conducting advanced data preprocessing, building predictive models, and visualizing insights using tools like Power BI. Proven ability to analyze complex data sets, identify key trends, and deliver actionable solutions that improve operational efficiency and patient care outcomes. Skilled in programming languages like Python, SQL, and R, with hands-on experience in machine learning and deep learning applications. ***Currently pursuing an M.S. in Health Informatics with a focus on AI and actively seeking internship or co-op opportunities in health tech to further apply analytical skills and drive innovation in healthcare to jumpstart career.***

TECHNICAL SKILLS

- **Programming Languages:** SQL, R, Python, SAS
- **Business Intelligence Tools:** Power BI, Tableau
- **Database Management:** MySQL, and PostgreSQL
- **HIPAA Compliant**
- **Microsoft Office Suite:** Excel (Pivot Tables, Power Query, Power Pivot, DAX, Dashboard Creation), PowerPoint, Word, Outlook, Access
- **Data Integration:** HL7, FHIR

ADDITIONAL SKILLS

- Attention to Detail
- Problem-Solving
- Communication
- Collaboration
- Adaptability
- Customer Service
- Time Management
- Analytical Thinking
- Project Management

PROFESSIONAL EXPERIENCE

Data Analysis of Employees Performance Project May 2024
Michigan Technological University, Houghton, Michigan

- Analyzed workforce challenges at INX Future Inc., including diversity, compensation, job satisfaction, and retention.
- Created Power BI dashboards with filtering and drill-down features for in-depth insights.
- Proposed solutions: Enhance diversity initiatives and optimize compensation strategies; Improve job satisfaction with department-specific approaches and flexible work policies; Develop personalized career plans to address promotion and commute concerns; Delivered insights to boost workforce efficiency and satisfaction.

Graduate Research Assistant Jan 2024 – April 2024
Michigan Technological University, Houghton, Michigan

- Conducted analysis of integrated data sets for early detection of Alzheimer's using machine learning models such as Random Forest, SVM, and XGBoost.
- Presented findings at weekly research meetings, effectively communicating insights and progress.
- Designed and built a CNN model for Alzheimer's disease severity classification.
- Trained the model using the Adam optimizer, sparse categorical crossentropy loss function, and implemented early stopping to prevent overfitting.
- Achieved the following performance metrics in assessing Alzheimer's disease severity: Training accuracy: 99.39%, Test accuracy: 92.60%, Test loss: 0.2805, High precision, recall, and F1 scores across all classes

Alzheimer's Disease Prediction using Machine Learning and Deep Learning Jan 2024 – Apr 2024
Michigan Technological University, Houghton, Michigan

- Conducted advanced image preprocessing techniques.
- Built and trained a CNN model for Alzheimer's disease severity prediction.
- Achieved high performance metrics: Training accuracy: 99.39%, Test accuracy: 92.60%

Clinical Data Analyst May 2022 – Dec 2022
Subha Parvathi Dental Hospital, Andhra Pradesh, India

- Utilized Pivot Tables to identify trends in patient treatments, focusing on repeat visits and patient dissatisfaction.
- Analyzed data to identify that fillings with dental amalgam were the most common source of patient dissatisfaction due to quality issues.
- Provided insights that led to the transition from dental amalgam to GIC and composite materials, improving treatment quality.
- Contributed to enhanced patient care and a significant increase in patient admissions from 33% to 55% through effective data integration and analysis.
- Demonstrated keen attention to detail in managing patient records, ensuring data confidentiality, and effectively interpreting data.
- ***Career Motivation**:* This role inspired a passion for data analysis and healthcare, motivating the pursuit of a master's degree in Health Informatics.

House Surgeon Internship Jan 2021 – April 2022

Anil Neerukonda Dental Hospital, Visakhaptanam, Andhra Pradesh, India

- Maintained and organized patient data in Excel, ensuring accurate tracking of medical and dental histories, treatment progress, and follow-up appointments.
- Managed radiographic data using RVG software, including dental x-rays and Orthopantomograms, to support diagnostic processes.
- Collected and analyzed patient data during health camps, contributing to public health initiatives in rural areas.
- Created and delivered presentations on various diseases, utilizing data and case studies to inform and educate peers.

EDUCATION

Michigan Technological University | Houghton, MI
M.S. in Health Informatics, Artificial Intelligence | GPA: 3.9 | Jan 2023 – Dec 2024

NTR University of Health Sciences | Vijayawada, India
B.S. in Dental Sciences | GPA: 3.2 | 2017 – 2022

RELEVANT CERTIFICATIONS

- Six Sigma Foundations - Aug 2024
- Microsoft Excel Essential Training - Aug 2024
- Artificial Intelligence in Health Care - Apr 2024
- Public Health Informatics - Apr 2024
- IBM Data Analysis Professional Certification - Jan 2024
- From Excel to SQL - Jan 2024
- Statistics Basics - Jan 2024
- Machine Learning Foundations - Jan 2024
- Foundations in Health Informatics - Dec 2023