Vandana Kandagatla

kandagav@mail.gvsu.edu | 616-334-0646 | linkedin.com/in/vandana-kandagatla

EMPLOYMENT HISTORY

Student Office Assistant (Part-time) — **August 2024 – Present**
Grand Valley State University — **Allendale, MI**

- Managed daily sales data entry, organized invoices, and generated financial reports.
- Coordinated with the sales team and handled client communications via email.
- Utilized excel for generating sales reports and Oracle MICROS Simphony for managing inventory, sales data, and reporting analytics.

Associate Consultant — **April 2022 – July 2023**
Infor India Private Limited — **Hyderabad, India**

- Provided technical support to clients for ERP-related issues, diagnosing and troubleshooting system problems to ensure minimal disruption.
- Customized and implemented Infor ERP systems, including modules like finance, supply chain, and manufacturing to meet client requirements.
- Collaborated with clients to gather requirements and integrate Excel solutions with ERP systems, enhancing functionality and usability.

Machine Learning Intern — **April 2021 – May 2021**
Smartknower — **Hyderabad, India**

- Developed machine learning models using XGBoost and Random Forest, applying hyperparameter tuning to enhance accuracy by 20% on validation datasets.
- Building on this experience, created two projects – an image classification system and a sentiment analysis tool, both leveraging real-world data.
- Deployed these projects as interactive stream lit apps on the Heroku Platform, enabling broader accessibility and showcasing practical applications of machine learning.

SKILLS

Power BI, Python, R, MySQL, RStudio, ERP LN, Data Analysis, ETL, Machine Learning, Statistical Analysis, Data Visualization, Predictive Modeling, Model Evaluation, Dashboards, Reports, Data Structures and Algorithms, Operating Systems, Computer Networks, Java, C, C++, HTML, CSS, MongoDB, PostgreSQL, WampServer

EDUCATION

Master of Science, Data Science and Analytics — **August 2025**
Grand Valley State University — Grand Rapids, MI

Bachelor of Technology, Information Technology — **July 2022**
JNTUH University College of Engineering — Jagtial, India

PROJECTS

Analyzing Trends in Chronic Disease Prevalence: Insights from the 2023 BRFSS — **October 2024**
Analyzed the prevalence of chronic diseases such as diabetes, hypertension, and asthma using the 2023 BRFSS dataset from the Centre for Disease Control website. Used Python and Power BI for data visualizations, exploring the impact of demographic, socioeconomic, and lifestyle factors. Generated actionable insights to guide public health interventions.

Prevalence of Low Femoral Bone Density in Older U.S. Adults (NHANES III) — **July 2024**
Replicated findings from NHANES III to confirm gender-specific bone mineral density (BMD) in older adults. Used SAS and Excel for data analysis, calculating prevalence and confidence intervals for different femur regions. Confirmed the need for gender-specific criteria in osteoporosis diagnosis, benefiting healthcare professionals in treatment planning.

Insurance Price Prediction **April 2024**

Built a multiple linear regression model to predict medical insurance costs based on demographic factors like age, BMI, and smoking status. Achieved a strong model performance with an adjusted R^2 of 0.75, explaining 75% of the variance in insurance costs.

Presidential Elections Data Analysis **November 2023**

Developed an interactive dashboard using R and Flexdashboard to analyze U.S. election data from 1976-2020. Integrated visualizations like bar charts and heatmaps to explore state-level voter trends. This tool assists political analysts in understanding long-term election patterns.

Credit Card Approval Prediction **November 2023**

Built and evaluated machine learning classifiers including Random Forest and SVM to predict credit card approval. Optimized the Random Forest model to achieve 86.4% accuracy, outperforming other models. The model aids financial institutions in improving credit approval processes.

Crime Data Analysis – Chicago 2012-2017 **March 2018**

Analyzed Chicago crime data from 2012-2017 to identify patterns and high-risk areas. Used Python for data preprocessing and visualizations, creating interactive maps to display crime hotspots. The findings help law enforcement agencies allocate resources more effectively.

CERTIFICATIONS

Data Modeling in Power BI (Microsoft), Extract, Transform and Load Data in Power BI (Microsoft), Harnessing the Power of Data with Power BI (Microsoft), Preparing Data for Analysis with Microsoft Excel (Microsoft), Introduction to Structured Query Language (SQL) (University of Michigan), Python Data Structures (University of Michigan)