Dedeepya Poreddy

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Data and analytics professional with experience designing and implementing scalable data solutions that drive business outcomes. Skilled in machine learning, automation, and experimentation using Python, R, SQL, and Power BI. Independently explored NLP and computer vision projects to broaden expertise in AI and advanced analytics. Strong ability to communicate technical findings to diverse stakeholders and contribute to intelligent, data-driven solutions.

SKILLS

- **Programming & Data Analysis:** Python, R, SQL, Microsoft Excel
- **Geospatial & Transportation Tools:** TransCAD, ArcGIS
- **Data Visualization & Reporting:** Power BI (coursework)
- **Cloud, Enterprise, Automation & Version Control:** Microsoft Azure, Teamcenter, RPA, GitHub
- **Machine Learning and Artificial Intelligence:** Image Analysis, Natural Language Processing

WORK EXPERIENCE

Wichita Area Metropolitan Planning Organization (WAMPO), Wichita, Kansas
Travel Demand Forecasting Analyst | August 2024 - Present

- Calibrated and validated TransCAD models to estimate regional growth rates and commuter flows, supporting data-driven transportation planning decisions.
- Analyzed crash and safety data for 204 schools using ArcGIS to measure Safe Routes to School program impact, generating actionable insights for stakeholders.
- Reduced manual reporting effort by ~30% and improved data quality by automating performance metrics for 22 Wichita-area cities using R and datasets from Census, BLS, and LEHD.
- Developed visual dashboards and spatial visualizations, improving stakeholder comprehension and enabling faster decision-making by ~20%.

Wichita State University, Wichita, Kansas
Graduate Teaching Assistant | August 2023 - December 2024

- Refined course materials and assignment guidelines in Web Programming, Design and Analysis of Algorithms, and Neural Networks & Deep Learning courses through faculty collaboration, improving course clarity and delivery.
- Enabled faculty to focus on curriculum development by grading assignments, projects, and tests for 100+ students, reducing instructor workload by ~40%.
- Strengthened student understanding of complex technical concepts through office hours and online guidance, leading to a ~25% improvement in student performance and engagement based on feedback and outcomes.

Wipro Limited, Bengaluru, India
Project Engineer | July 2020 - November 2022

- Reduced deployment errors and maintained system stability by ~40% by administering, configuring, and deploying Siemens Teamcenter on Microsoft Azure across development, UAT, and production environments.
- Minimized repeat support issues by ~50% and accelerated troubleshooting by creating detailed documentation and knowledge articles for resolved tickets.
- Accelerated onboarding and improved team productivity by ~25% by mentoring new members on project-specific Teamcenter workflows and change management practices.

EDUCATION

Master of Science, Computer Science | *Wichita State University* **|** January 2023 - December 2024
Bachelor of Technology, Computer Science | *GITAM School of Technology* **|** June 2016 – June 2020

PROJECTS

User Interaction Modeling with Generative AI | January 2025 - March 2025

- Built a T5 transformer model in PyTorch to predict contextually appropriate user responses, achieving a BERT score of 86% on the Empathetic Dialogues dataset (25k conversations).
- Preprocessed, cleaned, and structured the dataset, reducing data preparation effort by ~25% and enabling efficient model training.
- Extracted emotions and sentiments from conversations using DistilBERT, enhancing contextual understanding and informing future AI applications.

Computer Vision Model Performance Analysis | November 2024 - January 2025

- Evaluated HRNet object detection on the Day/Night Dataset (1,722 RGB images), analyzing confidence scores (0.85-0.94) and average objects detected (5-8.5) to identify conditions impacting model performance.
- Preprocessed and structured the dataset and applied statistical analysis, generating actionable insights for optimization, including lower night-time performance recommendations.

PUBLICATIONS

Poreddy, D., Reddy, E.V.V., Prasad, S.V., Reddy, K.A., & Reddy, C.M. (2020, April). Classification of Poverty Levels Using Machine Learning. Journal of Xi'an University of Architecture & Technology, XII (4), Paper No. 560 Access via Journal Issue Vol. XII (4)

ACHIEVEMENTS

Earned ‘Habit Flagbearer – Building Trust’ at Wipro for flawless delivery of critical deployments under tight deadlines.