Ganesh Reddy Annapa Reddy

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EDUCATION

University at Buffalo   Buffalo, NY
Masters in Data Science and Applications   May 2023

Hindustan University (HITS)   India
Bachelors in Electronics and Communication Engineering   June 2020

RESEARCH EXPERIENCE

University at Buffalo   Buffalo, NY
Research Volunteer   May 2023 – Dec 2023

- Analyzed large genetic interaction datasets and constructed node–edge network representations to study regulatory relationships.
- Designed 27+ 2D visualization layouts in RStudio to examine how spatial arrangement affects insight extraction.
- Identified interpretability constraints in 2D views for dense, multi-dimensional genetic networks.
- Evaluated visualization frameworks (igraph, networkD3, VisNetwork) for handling high-complexity datasets.
- Developed an interactive 3D gene-network visualization enabling detailed node inspection and structural exploration.
- Strengthened practical skills in selecting and optimizing visualization methods for large biological datasets.

Microsoft Research (Infosys Limited)   Hyderabad, India
Research Support Analyst   Apr 2021 – Jan 2022

- Assisted the IVR Research Team by preparing, cleaning, and structuring conversational data used for evaluating system performance.
- Monitored IVR call logs to identify recurring interaction patterns and basic failure points, supporting researchers during model refinement.
- Generated summary reports using SQL and Excel/Python to help senior researchers quickly review experiment outcomes.
- Supported testing cycles by running predefined evaluation scripts and documenting observations for research follow-ups.
- Verified dataset accuracy by checking transcripts, flagging anomalies, and ensuring inputs met study criteria.
- Supported research on improving pre-AI IVR systems designed to handle the surge in post-COVID customer service demands.

AWARDS

Spot Award, Infosys Limited   Sep 2021
Department Best Final Project Award – ECE Department   May 2020
Departmental Excellence Award, Year 3 – ECE Department   May 2019
Departmental Excellence Award, Year 2 – ECE Department   May 2018
HITS Education Scholarship   August 2016

PROFESSIONAL EXPERIENCE

Burrell College of Osteopathic Medicine   Las Cruses, NM
Application Programming Analyst   Feb 2025 – Current

- Led the migration of legacy CAMS reports to cloud-based Elements by rebuilding data pipelines, stored procedures.
- Built two internal version-control systems to track updates for Power Automate flows and Automation scripts.
- Automated institutional workflows using Power Automate, Adobe Sign, and SQL Server to streamline processes across departments.
- Converted SSRS academic and executive reports into interactive Power BI dashboards to support data-driven decisions by leadership.
- Developed and maintained multi-server data connections and real-time reporting queries across multiple SQL systems.
- Integrated institutional systems using REST APIs to support automated data exchange, workflow triggers, and reporting updates.
- Managed and updated an internal ColdFusion-based website, implementing UI, data-access for operational efficiency.

Trilok Software Solutions   Austin, TX
Data Analyst   Jan 2024 – Jan 2025

- Managed digital product analysis, leading cross-functional collaboration to ensure timely cloud deployment delivery.
- Automated data workflows using Python, reducing manual processes by 30% and improving operational efficiency.
- Analyzed product data with SQL and Tableau, identifying trends to boost user engagement and drive business outcomes.
- Supported A/B testing by interpreting user behavior data, optimizing product features for enhanced performance.
- Developed KPI frameworks and tagging strategies for digital analytics, ensuring comprehensive performance tracking.

- Leveraged Google Analytics for in-depth analysis of web traffic and user behavior, contributing to optimization strategies.
- Created data stories and dashboards to communicate insights, supporting strategic decision-making and prioritization.

Infosys Limited   Hyderabad, India
Data Analyst   Apr 2021 – Jan 2022

- Selected to work with Microsoft's IVR Research Team on post-COVID conversational system research.
- Managed SQL-driven data analysis to optimize marketing strategies and enhance business growth.
- Analyzed large datasets in a fast-paced environment to identify trends and inform product optimization.
- Led system migration projects, improving operational efficiency by 7% and reducing incidents.
- Developed automated reporting solutions with Python and SQL, enhancing data accessibility and decision-making.
- Identified data patterns and opportunities to drive strategic decisions and prioritize product development.
- Collaborated with cross-functional teams to improve service delivery and ensure client satisfaction.

ITC Infotech   Hyderabad, India
Jr. Data Analyst   Jan 2019 – Apr 2021

- Enhanced sales target prediction accuracy by 15% by developing a machine learning model using Tableau, Python, and automation.
- Increased operational efficiency by 15% through effective project management and technical solution deployments using JIRA.
- Designed interactive dashboards in Tableau and Power BI, improving data visualization and performance tracking.
- Boosted sales by 7% and reduced stockouts by 25% through strategic data-driven decision-making.
- Achieved a 12% reduction in annual spending via strategic planning and precise data manipulation.
- Provided actionable insights to company leadership by executing data analysis projects using Python, SQL, and Tableau.
- Conducted exploratory data analysis to identify key data types, statistics, and variable distributions, supporting strategic decisions.