PRIYANKA SURUGURI

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EXPERIENCE

Kena Solutions, *Data Analyst* **Jan 2025 – Present**

- Developed an internal data visualization platform that empowers clients to analyze historical data, compare various issuers, and generate insights into bonds and market trends. Utilized advanced techniques like bar charts, column charts, and pivot tables in Google Sheets for data analysis and visualization, improving data accessibility and decision-making efficiency by 30%. Performed data cleaning and filtering to ensure accurate, actionable insights.
- Automated alert notifications to proactively inform team leads of upcoming deadlines at the beginning of each month, streamlining workflow efficiency, reducing task delays by 25% and improving task management.
- Implemented website enhancements for the Urban Arts Commission, aligning with client requirements. Designed and developed a Board Members Page and a Newsletter Page using HTML, incorporating a structured, responsive grid layout to improve organization, accessibility, and user engagement, resulting in a 20% increase in page views and 15% boost in user interaction.

University of Memphis, *Graduate Teaching Assistant* **Aug 2023 – Dec 2024**

- Assisted over 120 students in the "System Analysis and Design" course, managing lab materials, leading sessions on Microsoft Visio, Excel, SQL, and Power BI, and streamlining grading for improved learning efficiency.
- Conducted lectures and offered personalized guidance on system analysis concepts, including ERD design, SDLC methodologies, and project documentation, ensuring students developed a strong foundation in system development practices.
- Facilitated student learning in agile methodologies through hands-on exercises in system planning, sprint reviews, and iterative project design, equipping them with practical skills for real-world applications in system analysis and design.

Cognizant Technology Solutions, Data Analyst **Jan 2022 – Feb 2023**

- Enhanced data analysis processes by leveraging SQL, Python, and Excel to extract insights, identify trends, and develop forecasts for business performance across industries, resulting in a 28% increase in forecast accuracy, driving improved operational efficiency.
- Aggregated and manipulated data from various sources using Nexus, Toad, BusinessObjects, and SmartView, resulting in 20% faster processing time. Applied data mining techniques to solve business problems and create visualizations with Tableau, PowerBI, and Alteryx. Conducted data analysis by leveraging Python libraries like Pandas, NumPy, Matplotlib, Seaborn, SciPy, Scikit-learn.
- Wrote complex ad-hoc MySQL queries using correlated subqueries, window functions, and common table expressions to track user activity metrics. Reduced query execution time by 25% improving efficiency in data tracking for retention rate and daily user activity.
- Applied machine learning algorithms such as SVM, Neural Networks to train binary classifiers and estimate individual risk for high-cost claims, as well as develop risk analysis and cost-effectiveness models.
- Performed Exploratory Data Analysis using Python and Tableau to identify correlations and patterns within datasets. Developed predictive models using NLP techniques and machine learning algorithms like linear regression, Naïve Bayes, Random Forests, PCA, and KNN, achieving a 38% improvement in model predictive accuracy and faster identification of key patterns. Designed sentiment analysis models using clustering algorithms like Hierarchical and K-means with Scikit-learn and SciPy.
- Designed and architected multiple data pipelines and end-to-end ETL/ELT processes for data ingestion and transformation in GCP, while leveraging cloud and GPU computing technologies to automate machine learning and analytics pipelines using AWS and GCP.
- Managed all phases of data analysis, including collection, cleaning, model development, validation, and visualization, while performing gap analysis. Ensured data accuracy and integrity through QA processes, audits, and root cause analysis. Collaborated with stakeholders, teams, and vendors to gather requirements and deliver actionable insights and strategic recommendations.

PROJECTS

Facial Emotion Recognition Deep Learning | *Python, CNN, FER*

- Developed a Facial Emotion Recognition system using deep learning and a five-layer CNN for emotion classification. Applied preprocessing, class imbalance handling, and data augmentation techniques to optimize model performance.
- Implemented image classification using Python (NumPy, Matplotlib) and Scikit-learn, focusing on model evaluation and result visualization. Addressed challenges by enhancing model robustness through data augmentation, class imbalance techniques, and explored improvements via transfer learning and hyperparameter tuning.

TECHNICAL SKILLS

- SQL, Python, R, Excel (VLOOKUPs, Pivot Tables, Macros), SAS, SPSS, Tableau, Power BI, Looker, Spotfire, Matplotlib, Seaborn, AWS, GCP, Azure, FME, Power Query, Informatica, MySQL, PostgreSQL, Oracle, Snowflake, EHR systems, WellView, GVERSE/GeoGraphix, IHS, Enverus, Python, R, VBScript, Java, Predictive Modeling, Regression Analysis, Hypothesis Testing, JIRA, Trello, Asana, Microsoft Project, SharePoint, Zoom, Teams, Git, Docker

EDUCATION

The University of Memphis **Jan 2023 – Dec 2024**

Master of Science in Management Information System *CGPA - 3.98*/ 4*

Jawaharlal Nehru Technological University **Aug 2018 – May 2022**

Bachelor of Technology in Electronics and Instrumentation Engineering *CGPA - 3.68*/ 4*