PRIYANKA SURUGURI

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# SUMMARY

# Innovative Programmer Analyst with over 3 years of experience delivering AI-powered solutions across cloud platforms such as Azure and AWS. Expertise in natural language processing (NLP), computer vision, and big data analytics. Proven ability to design and implement predictive analytics models, optimize operational efficiency, and minimize infrastructure costs through seamless AI and cloud integrations.

# EXPERIENCE

## Data Analyst Kena Solutions Feb 2025 – Present

## Led the development of a comprehensive website for the Urban Arts Commission, integrating geolocation capabilities and an intuitive user interface to enhance accessibility and improve the overall user experience.

## Designed and implemented an engaging, interactive platform using Squarespace, optimizing geolocation features and the user interface to maximize accessibility and user satisfaction.

## Graduate Assistant University of Memphis May 2024 – Dec 2024

* Performed data analysis on the prediction of mental health status by analyzing social media activities, utilizing Exploratory Data Analysis (EDA) and visualizations such as histplot, regplot, and stripplot to examine the relationship between social media usage and mental health, and conducted correlation analysis to identify key patterns.
* Developed and optimized predictive models using RandomForestClassifier and XGBoost, applied PCA for dimensionality reduction, and fine-tuned hyperparameters with RandomizedSearchCV, resulting in an 87% accuracy improvement in prediction performance.

## Programmer Analyst Cognizant Technology Solutions Jan 2022 – Feb 2023

* Automated end-to-end data pipelines using Azure Data Factory, optimizing ETL processes for hospital admission data. This reduced manual processing by 25%, improved data flow efficiency, and cut resource consumption by 15% through optimized transfers to Azure Data Lake Storage and MSSQL.
* Designed and implemented robust ETL workflows leveraging Azure Data Factory, Azure Databricks, and Azure SQL Database, reducing data transformation times by 30%. This optimization ensured improved data quality, enhanced reporting accuracy, and timely delivery of actionable insights, contributing to more efficient hospital operations and decision-making.

## Data Analyst EminoSoft Private Limited Jul 2020 – Dec 2021

* Analyzed hospital data to provide integrated insights on patient inflow, leading to a 12% improvement in resource utilization and revenue optimization.
* Designed and implemented various chart objects, including Bar Charts, Line Charts, Text Tables, Tree Maps, and Scatter Plots, improving the clarity and impact of visual representations by 12% for further analysis.

# PROJECTS

**Facial Emotion Recognition Deep Learning [](https://github.com/PriyankaSuruguri/Facial_Emotion_Recognition_Deep_Learning)** *| Python, CNN, FER*

* Developed a Facial Emotion Recognition system using deep learning on the FER 2013 dataset, employing a five-layer CNN for emotion classification. Applied preprocessing, class imbalance handling, and data augmentation techniques. Achieved 31.3% accuracy, with potential for optimization through transfer learning and hyperparameter tuning.

**House Price Prediction Using Machine Learning [](https://github.com/PriyankaSuruguri/House_Price_Prediction)** *| Python, Git, MAE, MSE*

* Applied Linear Regression to predict house prices based on factors like income, house age, and room count. Conducted data preprocessing, exploratory analysis, and model evaluation using metrics such as MAE, MSE, and R². Visualized predictions vs. actual values to assess model performance.

# TECHNICAL SKILLS

**Programming Languages:** Java, .NET, SQL, JavaScript, HTML, Python, R, SAS, SAS VA

**Database:** Relational Databases, SQL Views,Azure SQL, Azure Blob, SQL Server, Oracle

**Data Analysis:** Exploratory Data Analysis (EDA)**,** Data Augmentation**,** Feature Engineering**,** Correlation Analysis**,** Data Preprocessing**,** Model Evaluation (MAE, MSE, R²)**,** Data Pipelines**,** Dimensionality Reduction

**Big Data:** GitHub, Hadoop, Spark, Hive, AWS Bash, AWS SageMaker, Azure blob storage, Azure ML Studio

**Tools:** Azure Data Factory, Azure Databricks, Azure SQL Database, Squarespace, ESRI Mapping Software, Git

**Machine Learning:** Supervised Learning, Unsupervised Learning, Regression, Classification, Clustering, Decision Tree

# EDUCATION

## The University of Memphis Jan 2023 – Dec 2024

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