Giri Sai Kumar Pragada

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EDUCATION

Binghamton University, New York   **GPA: 3.82/4.0**

Master of Science, Information Systems   Expected May 2025

Andhra University, Visakhapatnam

Bachelor of Technology, Electronics and Communication Engineering   Jul 2016 – Aug 2020

TECHNICAL SKILLS

Languages: Java, Python, C

Database and Cloud: MySQL, PostgreSQL, MongoDB, Azure Cloud Platform

AI and ML: NumPy, Pandas, Scikit-learn, LangChain, Matplotlib, Natural Language Processing (NLP)

Tools: Power BI, Excel, PowerPoint, Tableau, MySQL, SQL Lite

Platforms: JupyterNotebook, SSMS, PyCharm, Visual Studio Code, PG Admin

EXPERIENCE

SQL, Azure SQL Database Administrator, Tata Consultancy Services(TCS)   April 2021 – July 2023

- Highly skilled **MS SQL Server Database Administrator (DBA)** with over **2.5 years of IT experience**, including **1 years as an Azure Administrator**. Expertise in **designing, developing, managing, and maintaining SQL Server databases** across versions **2008R2 to 2019**, with a strong background in **production, development, and testing environments**.
- Proficient in **SQL Server installation, configuration, upgrades, and migrations**, including **side by side and in place upgrades**. Experienced in **high-availability solutions** such as **Always On, Clustering, Log Shipping, Mirroring, and Replication**. Strong **disaster recovery planning** and **database backup/recovery management**, including **large scale database administration**.
- Deep understanding of **performance tuning techniques**, including query optimization, **index defragmentation, execution plan analysis, index rebuilds, reorganization, and partitioning**. Skilled in using tools like SQL Profiler, **Index Tuning Wizard, Spotlight, and Windows Performance Monitor** for monitoring and tuning database performance.
- Extensive hands-on experience with **TSQL development**, including **stored procedures, triggers, functions, constraints, views, and complex query writing**. Strong knowledge of **database and server level security**, including **encryption (TDE), dynamic data masking, and access control**.
- Azure expertise includes **PaaS, IaaS, Azure Backup, Networking, ExpressRoute, Azure VMs, Azure Active Directory (AZAD), SSO, and Azure Storage**. Experience in **migrating on-premises and legacy databases to Azure** and deploying products in cloud environments. Worked with **SQL Azure IaaS, PaaS, and Managed Instances**, as well as hosting SQL databases on **Microsoft Azure.**
- Experience in **ETL processes, SSIS package development, and SSRS report generation**. Skilled in **Linked Server configuration and data transfer between heterogeneous databases.** Strong background in **database design, performance analysis, and production support for very large databases (VLDBs)**.

ACADEMIC PROJECTS

Next Word Prediction Model [Link]

- Developed a **Next Word Prediction model** using **LSTM** to enhance text input efficiency, similar to predictive keyboards and search suggestions.
- Collected and preprocessed **textual data**, including tokenization, input/output pair creation, and feature engineering with **word embeddings**.
- Trained the model with **hyper-parameter tuning** and improved performance through iterative experimentation with different architectures.
- Applied **deep learning techniques** to optimize real world applications in NLP, enabling faster and more accurate text predictions

Pneumonia Detection [Link]

- Built a **CNN based deep learning model** for **pneumonia detection** from chest Xray images.
- **image preprocessing techniques** (resizing, normalization, data augmentation).
- Achieved high **classification accuracy** through **hyper-parameter tuning and transfer learning.**
- Evaluated performance using **precision, recall, F1score, and AUCROC curves**.

Netflix Subscription Forecasting [Link]

- Developed a **time series forecasting model** to predict **Netflix subscriber growth**.
- Used machine learning algorithms like **ARIMA** for predictive analysis.
- Analyzed customer behavior and retention patterns using **EDA and feature engineering**.
- Evaluated model performance using **RMSE, MAE, and MAPE** metrics.

YouTube API Data Analysis [Link]

- Extracted r**ealtime YouTube data** using **YouTube Data API v3**.
- Performed t**rend analysis** on video popularity, engagement, and user interactions.
- Built visualizations to forecast **subscriber growth, video views, and watch time metrics**.