P SAIRAM KUMAR

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# PROFESSIONAL SUMMARY

Educator with **5 years of experience** teaching **SQL**, **Python**, **C-Language** and **Advanced Excel**, now transitioning into a **Data Analyst** role. Strong in **data analysis**, **automation**, and **visualization**, with a passion for turning data into **actionable insights**.

# PROJECTS

#### **Capstone Project: Retail Sales Analytics**

**Tools:** Python (Pandas), SQL Server, Power BI, DAX  
**GitHub:** [Retail\_Sales\_Project](https://github.com/psairam12p/Retail_Sales_Project)

* Developed an end-to-end retail sales analytics pipeline for a simulated business.
* Cleaned and preprocessed raw CSV data using **Pandas** (**null handling**, **data type conversions**).
* Loaded cleaned data into a normalized **SQL Server** database, ensuring data integrity.
* Wrote advanced **SQL** queries using **joins**, **aggregations**, **views**, and **window functions**.
* Built an interactive **Power BI** dashboard with slicers, KPIs, and visuals for executive insights.
* Applied **DAX** for Top-N analysis, customer segmentation, and dynamic metric calculations.

#### **Capstone Project: Airbnb Data Analysis**

**Tools:** Python (Pandas), MongoDB, EDA, Streamlit, Power BI  
**GitHub:** [Airbnb-Analysis](https://github.com/psairam12p/Airbnb-Analysis)

* Collected publicly available Airbnb listing data including pricing, location, reviews, and host details.
* Preprocessed data to address **missing values**, **outliers**, **duplicates**, and **format inconsistencies**.
* Performed **Exploratory Data Analysis (EDA)** to uncover trends and correlations in key features.
* Created visualizations using **Matplotlib**, **Seaborn**, and **Power BI** to highlight patterns in location-based pricing, review sentiment, and availability.
* Built a **Streamlit**-based web app for interactive filtering and exploration of Airbnb listings.

# CERTIFICATIONS

* **Professional Master Data Science Program** - GUVI **** July - 2025
* **JavaScript** - GUVI **** June - 2025

# SKILLS

* **Tools:** MS SQL Server, Power BI, Excel (Advanced), MongoDB (Basic)
* **Languages**: SQL, Python, JavaScript, C, HTML, CSS
* **Python Libraries**: Pandas, NumPy, Scikit-learn, Seaborn, Matplotlib, Plotly, NLTK
* **ML/NLP**: Machine Learning, NLP, Text Classification, Model Building
* **Development**: Jupyter, VS Code, GitHub, Streamlit
* **Data Concepts**: ETL/ELT, Data Warehousing, Star Schema
* **Visualization**: Power BI Dashboards, Python Visualizations
* **Soft Skills**: Communication, Problem-Solving, Analytical Thinking

# EXPERIENCE

**Computer Teaching & System Administrator**  ** 11/2022 - 05/2025 (Full Time)**

*Nallam Residential Concept High School*

An educational institution focused on various subjects including computer science

* Managed computer teaching programs and facilitated learning for students
* Oversaw computer systems and administration in the school

## Computer Faculty 01/2018 - 01/2022 (Full Time)

*Ct&t Computer Institution*  11/2022 - 05/2025 (Part Time)

An institution specializing in computer education

* Delivered structured lessons in **MS Office**, **Python**, and **SQL** to B.Tech and B.Sc Computer Science students, emphasizing real-world problem-solving and practical implementation

# EDUCATION

**B.Sc Mathematics** *Dr. S.R.K Govt Arts College*May 2014 - May 2017 | Yanam