LAKSHMI PRAGNA KOLLU

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SUMMARY

Experienced in data analysis and predictive modeling with a focus on data-driven decision-making. Proficient in Python, SQL, and data visualization tools like Power BI and Tableau. Skilled in uncovering insights and presenting them clearly.

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech., CSE	National Institute of Technology, Manipur	8.95	2021-Present
Senior Secondary	Telangana State Board of Intermediate Education	96.8%	2021
Secondary	Telangana Board of Secondary Education	10.0	2019

SKILLS

- **Languages and DataBases** : Python, Pandas, Numpy, Matplotlib, Seaborn, SQL, C++, Java, C
- **Visualization Tools:** : Power BI, Tableau
- **Developer Tools** : Jupyter Notebook, PostgreSQL, MySQL, IntelliJ IDEA, Visual Studio, Microsoft Excel
- **SoftSkills:** : Proficiency in English, Hindi, Telugu. Negotiation.

RELEVANT COURSEWORK

- Data Structures
- Data Mining
- Algorithms
- Database Management
- Machine Learning
- Information Retrieval System
- Software Engineering
- Computer Architecture

PROJECTS

- **Bangalore House Price Prediction.** *October-2024*
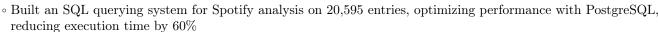 *Tools: Python, Pandas, Scikit-Learn, Matplotlib, Flask, Amazon EC2* [○]
  - Built a predictive model for Bangalore housing prices using a dataset of over 13,000 records, analyzing features like location, area, price, and amenities.
  - Enhanced model relevance by 20% through data cleaning, feature engineering, and tuning with Random Forest Regression, achieving a high accuracy of 0.85 R-squared.
  - Developed an intuitive Flask UI for real-time price predictions and deployed on Amazon EC2 for remote accessibility and scalability.
  - Visualized housing market trends using Matplotlib, highlighting location influences on price and identifying popular areas across different budget segments.

- **Spotify Advanced SQL Optimization.** *September-2024*
  Tools: SQL, PostgreSQL, PgAdmin4 [○]
  - Built an SQL querying system for Spotify analysis on 20,595 entries, optimizing performance with PostgreSQL, reducing execution time by 60%
  - Developed an EDA framework, boosting actionable insights on track popularity by 30%
  - Applied index optimization on the Artist column, improving query speed from 4.76 ms to 0.153 ms and cutting planning time by 60%

- **Sales Insight Dashboard using Power BI.** *October-2024*
  Tools: MySQL, Power BI [○]
  - Developed a Power BI dashboard to track 984.81M revenue and 2M units sold, identifying Delhi NCR as the top market (519.51M revenue, 988K units sold) and key customers, with Electricalsara Stores leading at 413.33M and a top product generating 468.96M, supporting strategic prioritization.

EXPERIENCE

Accenture September 2024
Data Analytics and Visualization Job Simulation Remote

- ∗ Engineered a data model to integrate, clean, and analyze client datasets, boosting decision accuracy by 25% and workflow efficiency by 15%, while delivering visual insights in a 10-minute video that reduced report prep time by 20% and enhanced client engagement.

ACHIEVEMENTS

- **National Cadet Corps C Certificate** Demonstrated leadership, discipline, and teamwork *2023*

- **Spelling Bee Winner** Ougri Fest, NIT Manipur *September 2022*