

LAKSHMI PRAGNA KOLLU

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[Portfolio](#)



EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech, CSE	National Institute of Technology, Manipur	8.95(Current)	2021-Present
Senior Secondary	Telangana State Board of Intermediate Education	96.8%	2021
Secondary	Telangana Board of Secondary Education	10.00	2019

RELEVANT COURSEWORK

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

PROJECTS

- **YouTube History Analysis.** October-2024
Tools: Python, BeautifulSoup, NLTK 
 - Leveraged the BeautifulSoup library to construct a tool for scraping and cleaning YouTube watch history, efficiently processing over 10,000 video entries.
 - Utilized Pandas for data wrangling, identifying daily and weekly patterns; found 30% of watch time was on educational content, with 10% on ads
 - Applied NLTK for natural language processing, filtering stopwords and categorizing video content, improving topic classification accuracy by 15%
- **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%

EXPERIENCE

- **Accenture** September 2024
Data Analytics and Visualization Job Simulation Remote
 - Engineered a data modeling system that integrated, cleaned, and analyzed client datasets, improving decision-making accuracy by 25% and enhancing workflow efficiency by 15%
 - Generated data visualizations and presented insights in a 10-minute video, reducing report preparation time by 20% and enhancing client engagement with actionable insights.
- **Walmart** July 2023
Advanced Software Engineer Virtual Experience Program Remote
 - Enhanced data processing by developing a performant PowerHeap data structure, handling up to 10,000 elements efficiently and reducing retrieval time by 50%
 - Designed a UML-based architecture for a data processing pipeline, enabling flexible operation modes and database integrations for improved data validation and insertion

SKILLS

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

ACHIEVEMENTS

- **NCC C and B Certificates (80%)** Exhibited Leadership competency, discipline, teamwork skills. July 2024
- **Winner Of Spelling Bee** at Ougri, the Annual Fest of NIT Manipur. September 2022

CERTIFICATIONS

- **Ask Questions to Make Data Driven Decisions,** [Google](#) June 2024
- **Prepare Data for Exploration,** [Google](#) August 2024