LAKSHMI SRAVYA VEDANTHAM

Portfolio | GitHub | LinkedIn | Phone: 959-222-8822

PROFILE SUMMARY

Highly adaptable Data Analyst and Data Scientist with 6+ years of experience in both software development and advanced analytics. Proficient in Python, SQL, and Machine Learning, with a track record of delivering actionable insights through statistical modeling and visualization. Eager to apply skills in data-driven innovation and process optimization to a mission-driven organization.

PROFESSIONAL EXPERIENCE

Relocation & Immigration Transition United States, Mar 2025 - Present
- Developed a Python-based application to analyze dreams and moods, incorporating simulated EEG data to mimic brain-computer interface (BCI) inputs for enhanced emotional pattern detection using NLP techniques (e.g., NLTK/spaCy) and visualized insights with Matplotlib/Seaborn.

- Developed a Retrieval-Augmented Generation (RAG) chatbot using Python and Streamlit, integrating LangChain and Hugging Face transformers to enable context-aware responses by retrieving relevant information from a knowledge base

Co-operators | Toronto, ON   **Senior Data Modeling & Reporting Analyst | Oct 2022 – Feb 2025**

- Led **AI-driven automation** initiatives to redesign applications, resulting in a 70% increase in operational efficiency by automating BAU tasks.

- Developed advanced auto policy pricing models using statistical methods, significantly improving pricing accuracy and competitive positioning.Mentored and trained junior analysts and supervised two interns annually, demonstrating leadership and knowledge-sharing abilities.

StackUp Technologies | Chennai, India   **Software Developer | Oct 2018 – June 2019**

- Developed APIs for seamless system integration and built responsive front-end applications, enhancing code efficiency.Led the redevelopment of a data science project using **React, Python, and Flask**, designing user-centric interfaces and reusable components.

Tata Consultancy Services | Nagpur, India   **System Engineer | June 2015 – March 2018**

- Led module development with **AngularJS, Spring, and Selenium**, directing a remote team to improve collaboration and productivity.Designed custom directives and optimized performance using browser debugging tools.

TECHNICAL SKILLS

Languages: Python, R, SQL, JavaScript, Java, C++
Data Visualization: Tableau, Power BI, MicroStrategy
Machine Learning & AI: Scikit-learn, TensorFlow, PyTorch, Streamlit, Pandas, NumPy, Cursor
Databases & Cloud: MySQL, PostgreSQL, Azure, Google Cloud
AI Tools: Git, Jupyter, VS Code, Excel (Advanced), Cursor, Runway, Luma, Stable Diffusion, Replit, Copilot

AWARDS & ACHIEVEMENTS

- **Part-time Coding Instructor (Sep 2021 – Aug 2025):** Mentored and taught coding and AI concepts (Python, R, Tableau) to graduate students, demonstrating strong leadership and an ability to distill complex technical topics for diverse audiences