LAKSH MADAAN

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PROFILE SUMMARY

Aspiring AI Engineer with a strong foundation in data Science, Skilled in Python, data visualization, data Manipulation. Developed and completed multiple projects in data analytics, showcasing expertise in data manipulation, analysis, and visualization. Currently developing skills in machine learning to build predictive models and gain insights into data-driven decision-making. Driven by a passion for data science and a commitment to continuous learning and technical growth.

EXPERIENCE

LearnFrenchWithAnks(Part-Time)(Remote)   *Dec 2024*

- Assessed **exam performance metrics**, including **average passing scores, success rates, and student progress**, to enhance curriculum effectiveness. Conducted **data cleaning and preprocessing** to ensure accuracy in student records, including enrollment details and fee. structures
- Assisted in **predictive analysis** for student retention and success, helping improve targeted coaching strategies.

AKS INTERACTIVES (intern) New Delhi   *Feb 2023 - Apr 2023*

- Developed and implemented a simulated **OYO Rooms website user interface**.
- This immersive experience was pivotal in fostering professional growth and expertise in web development, particularly in **Angular framework**

TECHNICAL SKILLS

PYTHON | MACHINE LEARNING | SCIKIT-LEARN | DATABASE MANAGEMENT | MYSQL | DATA MANIPULATION JAVA | DATA STRUCTURE | OFFICE 365 | ADVANCED EXCEL | AI/ML MODELS DEVELOPMENT | NODEJS\REACT | API INTEGRATION | PROMPT ENGINEERING | GITHUB

PROJECTS

Quora Similarity Question Detection   *Feb 2025*

- Designed and implemented a Quora Question Similarity Detection system utilizing **data extraction techniques and cosine similarity** to identify semantically similar questions, effectively addressing redundancy and improving platform efficiency.
- Employed **Support Vector Machines (SVM)** to classify question pairs, preventing the "next question problem" and enhancing the model's ability to handle ambiguous or complex queries with high accuracy.

Amazon Review Prediction (Kaggle.com)   *Jan 2025*

- **Performed Mathematical Analysis & NLP**: Utilized **TF-IDF for text vectorization**, extracted and analyzed vector data from MySQL using Python, and applied **Natural Language Processing (NLP)** techniques for text preprocessing and sentiment analysis.
- **Data Cleaning & Preprocessing**: Cleaned and preprocessed raw review data, including handling missing values, **tokenization**, **Normalization**, to prepare the dataset for **predictive modeling.**

Zomato Data Analysis   *Nov 2024*

- Developed a comprehensive data visualization project using **Python libraries (Matplotlib, Pandas, Seaborn)** to analyze **Zomato's user ratings, average food prices**, and various other metrics.
- The project focused on uncovering insights into **consumer behavior, pricing trends, and restaurant performance through detailed visual analytics.**

AI-Based Automatic Accident Detection   *June 2024*

- Developed an AI-driven accident detection system as a major college project. The system **leverages road securit**y cameras to identify accidents in real-time, **extract details of the individuals involved**, and notify nearby hospitals, potentially saving lives through rapid response.

EDUCATION

THE NORTHCAP UNIVERSITY - B.C.A.| Computer Science and Engineering| 2021-24   *Gurugram, HR*

- **Relevant Coursework**: Object Oriented Programming, Databases, Discrete Math, **Data Structures and Algorithm**s, Operating Systems, Computer Networks, **Machine Learning, Data Mining**.
- CGPA: **7.01/10**

ADDITIONAL CERTIFICATIONS

Walmart Job Simulation By Forage,   NPTEL (Object Oriented Programing, Using JAVA)