AKSHAT GAUR

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AI enthusiast passionate about uncovering insights from data and building intelligent solutions that drive meaningful impact.

EDUCATION

Master of Science in Data Science   **Jun 2025 (Expected)**
- DePaul University, Chicago, IL (GPA 4.0/4.0) *

Bachelor of Technology in Computer Science   **Jun 2022**
- MS Ramaiah University of Applied Sciences, Bangalore, INDIA (GPA 3.9/4.0)

PROFESSIONAL EXPERIENCE

IT AND OPERATIONS SUPPORT SPECIALIST   **Jul 2024 – Present**
DePaul University, Chicago, IL
- Analyzed and optimized the Career Center's IT systems and workflows using data-driven approaches, identifying opportunities to enhance application functionality.
- Resolved hardware and software issues through active troubleshooting, including desktops, printers, and network connections, enhancing and automating system functionality and reducing downtime.
- Developed and maintained technical documentation, training materials, and procedures; trained users on proper hardware and software usage, improving user experience and efficiency.

CONSULTANT - SOFTWARE ENGINEER   **Jul 2022 – May 2023**
Profinch Solutions Pvt Ltd Bangalore, INDIA
- Developed and integrated a new module for the internal client-facing prototype website using Spring Boot and AngularJS, improving product demonstration capabilities for potential clients.
- Authored and maintained user-centric documentation for Atumverse features, contributing to better user understanding.
- Gained hands-on experience in Spring Boot, AngularJS, and SQL, strengthening skills in full-stack development and problem-solving within a real-world fintech environment.

PROJECTS

CLUSTERING EXPEDIA CUSTOMERS BASED ON BOOKING BEHAVIOR   **Jan 2025 – Mar 2025**
- Segmented Expedia customers based on booking behavior to reveal distinct market segments and actionable insights.
- Engineered key features to optimize model performance after conducting a detailed EDA.
- Performed K-Means clustering using scikit-learn and determined the optimal number of clusters with various techniques.
- Identified distinct customer groups based on their booking patterns, paving the way for targeted marketing strategies.

UBER EATS DATA ANALYSIS AND RESTAURANT RECOMMENDATION   **Sep 2024 – Nov 2024**
- Developed a recommendation system for Uber Eats data by analyzing restaurant information based on location and average menu prices.
- Cleaned, normalized, and merged large datasets from S3 and Athena, transforming data for effective analysis.
- Built and evaluated a recommendation model using Spark's MLlib and cosine similarity to identify similar restaurants.
- Gained hands-on experience with AWS for distributed computing, big data processing, and machine learning in real-world recommendation systems.

MOVIE GENRE CLASSIFICATION   **Mar 2024 – Jun 2024**
- Analyzed the IMDb Genre Classification Dataset using Python to predict movie genres based on title, director, cast, and plot keywords.
- Conducted EDA with visualizations to identify patterns, correlations, and feature relationships within the dataset.
- Engineered features using tokenization, stemming, and TF-IDF to enhance model accuracy.
- Developed and tuned classification models, including Naive Bayes, and evaluated performance using accuracy and F1-score.

TECHNICAL SKILLS

- **Programming:** Python | R | SQL | Java | C
- **Machine Learning & Cloud:** Machine Learning Algorithms | ML Libraries (scikit-learn, TensorFlow, etc.) | AWS | MATLAB
- **Data Analysis:** Data Wrangling | Statistical Modeling | Database Management | Data Visualization
- **Web & Software Development:** HTML | CSS | JavaScript | AngularJS | Spring Boot | Postman
- **Tools & Productivity:** Tableau | Git | Microsoft Office Suite (Word, PowerPoint, Excel, Outlook, Teams)