Akshita Sankhwar

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EDUCATION

Ajay Kumar Garg Engineering College **Ghaziabad, UP, IN**
BTech and AIML *NOV 2022 - APR 2026*

TECHNICAL SKILLS

Programming Languages: Python ,SQL ,R ,HTML/CSS (basic familiarity)
Frameworks: TensorFlow, Keras, PyTorch, Scikit-learn, Flask, FastAPI
Libraries: Pandas, NumPy, Matplotlib, Seaborn, Plotly, NLTK, spaCy, TF-IDF, Scikit-learn
Cloud Tools: AWS, Google Cloud Platform, Azure ML
Developer Tools: Git, GitHub, Jupyter Notebook, VS Code, PyCharm, Anaconda, Google Colab, Postman, Docker

WORK EXPERIENCE

Internship in AI and Data Science
NEmi, Remote *JUL 2025 - AUG 2025*

- Learned core concepts in AI, machine learning, and data analysis through hands-on training.
- Applied NLP techniques to clean and analyze social media text data.
- Built a sentiment analysis model and generated insights from real-world datasets.

PROJECTS

- **Customer Segmentation** : Developed a customer segmentation solution using machine learning techniques to identify 5 distinct customer groups based on behavioral and demographic features. Designed and evaluated the clustering model, achieving a silhouette score of 0.62, indicating well-separated and meaningful segments. Built and integrated a RESTful API to enable real-time customer group prediction, and further validated the segmentation through a downstream classification model that achieved 85 Link
- **Social Media Analysis and Crisis Detection**: Built an end-to-end social media analytics platform that analyzed 50+ tweets, classified sentiment into 3 categories, and highlighted crisis-related content using NLP and visual dashboards. Link
- **Phishing Website Detection**: Designed and evaluated a supervised machine learning pipeline for phishing website detection by training classification models on 11,000+ real-world URLs. Performed feature engineering, model training, and systematic evaluation using industry-standard metrics including accuracy (56%), precision, recall, and F1-score (0.56), establishing a reliable baseline model and identifying opportunities for further optimization through advanced algorithms and class-imbalance handling techniques. Link
- **Climate Visibility**: Built and evaluated a machine learning regression model to predict atmospheric visibility using historical climate data. Implemented preprocessing, train–test splitting, and model evaluation in Python with scikit-learn, achieving an R^2 score of 0.64, explaining 64% of variance in visibility, with a mean absolute error of 0.55 and RMSE of 1.33 on unseen data, demonstrating effective baseline performance on real-world, noisy weather datasets. Link
- **Myntra Review Scrapper**: Built a Python-based Myntra review scraper with Streamlit and MongoDB, enabling automated extraction and storage of 1,000+ customer reviews across multiple products, supporting scalable sentiment analysis and eliminating manual data collection. Link

EXTRACURRICULAR ACTIVITIES

- **Athlete Coordinator** Coordinated athletic activities and events for 30+ athletes, developing leadership, teamwork, and organizational skills - Mar 2025 - Apr 2026