

JASMINE KAUR HANJRA

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SUMMARY

Computer Science & Data Science student (Dean's List, GPA 3.49) with hands-on experience in machine learning, NLP, computer vision, and data visualization. Skilled at building scalable AI applications and interactive tools with a focus on accessibility and real-world impact.

EDUCATION

Rutgers University – New Brunswick, NJ

B.S. Computer Science & Data Science | Minor: Statistics | GPA: 3.49

Dean's List (Fall 2022, 2023, 2024, Spring 2025)

Relevant Coursework: Deep Learning, AI, Bayesian Data Analysis, Algorithms, Data Visualization, Statistical Learning

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, R

AI/ML: TensorFlow, PyTorch, Keras, scikit-learn, CNNs, NLP (SBERT, TF-IDF)

Data & Tools: Pandas, NumPy, Tableau, MySQL, MongoDB, Streamlit, Git, Linux, Google Cloud

PROJECTS

- **AI Resume ↔ Job Description Matcher | NLP, Streamlit, SBERT**
 - Investigated the effectiveness of transformer-based models (SBERT) versus traditional statistical methods (TF-IDF) for semantic text similarity. Developed a system to quantify resume-to-job-description alignment, validating model performance on a custom-built dataset.
- **Flight Delay Risk Advisor | Logistic Regression, Streamlit, SHAP**
 - Developed a predictive model for flight delay risk using logistic regression on large-scale DOT data, achieving ~80% accuracy. Employed SHAP (SHapley Additive exPlanations) to analyze model interpretability and identify the most significant features contributing to flight delays
- **Spotify Popularity Prediction | Random Forest, Pandas**
 - Tuned models to predict track popularity and visualized key feature drivers; exported trained model with joblib.
- **ASL Sign Language Detection (CNN) | TensorFlow, Keras**
 - Designed, trained, and evaluated a Convolutional Neural Network (CNN) for the classification of American Sign Language gestures. Achieved ~95% validation accuracy on a dataset of over 10,000 images, demonstrating the model's high performance and potential for accessibility applications.

EXPERIENCE & LEADERSHIP

Board Member – Rutgers Sikh Student Organization (2024–2025)

- Organized cultural events that boosted attendance by 25% while managing budgets and coordinating board activities.

Volunteer Instructor – Khalsa School (2019–Present)

- Develop and deliver weekly lesson plans on the Punjabi language for 15-20 students, adapting instructional techniques to foster engagement and measure learning outcomes.