JASMINE KAUR HANJRA

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PROFESSIONAL SUMMARY

Results-driven senior majoring in **Computer Science** and **Data Science** with a **minor in Statistics** at Rutgers University, graduating May 2026. Consistently on the Dean's List with a cumulative GPA of **3.49**. Passionate about machine learning, deep learning, and data visualization, with hands-on experience developing and deploying AI applications. Adept at using advanced analytics and statistical modeling to solve real-world problems and deliver measurable results.

EDUCATION

Bachelor of Science in Computer Science & Data Science
Rutgers University – New Brunswick, NJ | Expected May 2026

- Minor: Statistics

- Cumulative GPA: **3.49**

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

- Relevant Coursework: Deep Learning, Introduction to Artificial Intelligence, Statistical Learning, Bayesian Data Analysis, Design & Analysis of Algorithms, Principles of Information & Data Management, Regression Methods, Data Wrangling with R, Data Visualization

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C/C++, SQL, R

- **AI & Machine Learning:** TensorFlow, PyTorch, Keras, scikit-learn, Convolutional Neural Networks (CNNs), Bayesian inference, regression analysis

- **Data & Visualization:** NumPy, Pandas, Tableau, data wrangling, statistical modeling, interactive dashboards

- **Databases:** MySQL, MongoDB; data normalization & performance tuning

- **Tools:** Git, Linux, Jupyter, VS Code

PROJECTS

Sign Language Detection System – Computer Vision & CNN

- Designed a Convolutional Neural Network with TensorFlow and Keras to recognize American Sign Language hand gestures and translate them to text, achieving **95% accuracy** on a validation set.

- Built data pipelines for image augmentation and preprocessing; deployed the model in a Python web app to enable real-time predictions and improve communication for the hearing-impaired community.

Interactive Data Visualization Dashboard

- Developed an analytics dashboard in Tableau and Python for a multi-dataset project (e.g., healthcare outcomes), allowing users to filter and explore trends dynamically.

- Automated data collection and cleaning with Pandas scripts; visualizations reduced stakeholders' analysis time by **30%** and supported data-driven decision-making.

Database Optimization & Management System

- Refactored a MySQL database schema using normalization techniques, eliminating redundant entries and improving query performance by **~30%**.

- Implemented stored procedures and indexing strategies; collaborated on version control through Git, practicing agile development and code reviews.

LEADERSHIP & EXPERIENCE

Board Member, Rutgers Sikh Student Organization – New Brunswick, NJ | Aug 2024 – May 2025

- Plan and execute campus-wide cultural and service events; expanded event attendance by **25%** through targeted outreach.

- Manage budget, logistics, and communications for a diverse student board, strengthening leadership and project management skills.

Volunteer Punjabi Language Instructor, Khalsa School (Local Community Center) | Aug 2019 – Present

- Teach weekly classes on Punjabi language and culture to 15–20 students, developing comprehensive lesson plans and fostering cultural understanding.

- Enhance public speaking and leadership skills through interactive and collaborative teaching methods.

Key Club Volunteer, Phillipsburg High School | Jun 2018 – Dec 2022

- Organized community service initiatives, including food drives and soup kitchen support; contributed **200+ hours** of service.

- Coordinated volunteers and developed creative problem-solving strategies in fast-paced, team-oriented environments.