

JASMINE KAUR HANJRA

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SUMMARY

Highly motivated senior pursuing dual degrees in Computer Science and Data Science with a minor in Statistics at Rutgers University (expected May 2026). Consistently recognized on Dean's List with a cumulative GPA of 3.49. Skilled in machine learning, deep learning, database design and statistical analysis, with hands-on experience developing AI applications such as sign language detection and data visualization dashboards. Passionate about leveraging data to solve real-world problems and deliver innovative solutions.

EDUCATION

Rutgers University, New Brunswick, NJ

Bachelor of Science in Computer Science & Data Science, Minor in Statistics |
Expected May 2026

- Cumulative GPA: 3.49 (Dean's List: Fall 2022, Fall 2023, Fall 2024, Spring 2025)

- Relevant Coursework: Deep Learning, Statistical Learning, Data Science Capstone,

Principles of Information & Data Management, Design & Analysis of Algorithms, Introduction to Artificial Intelligence, Bayesian Data Analysis, Regression Methods,

Data Wrangling with R, Information Visualization

TECHNICAL SKILLS

- Programming Languages: Python, Java, C++, SQL, R
- Machine/Deep Learning: TensorFlow, PyTorch, Keras, scikit-learn, CNNs, Bayesian analysis
- Data Science & Analytics: NumPy, Pandas, Data Wrangling, Statistical Modeling, Tableau
- Databases & Tools: MySQL, MongoDB, database normalization & design, Git, Linux, Jupyter

PROJECTS

Sign Language Detection System – Convolutional Neural Network (CNN)

- Designed and trained a CNN using TensorFlow and Keras to recognize American Sign

Language hand gestures and translate them into text with over 95 % accuracy.

- Collected and pre-processed image datasets, implemented data augmentation, and deployed a Python web application for real-time predictions, improving

communication

accessibility for the hearing-impaired community.

Interactive Data Visualization Dashboard

- Built an interactive dashboard in Tableau and Python for exploratory data analysis and visualization of large public datasets (healthcare, finance, demographics).

Enabled

non-technical stakeholders to make data-driven decisions through clear visual insights.

- Automated data ingestion and cleaning with Pandas and developed scripts for ongoing data updates.

Database Management System Optimization

- Restructured and normalized an existing MySQL database, eliminating redundancy and improving query performance by 30 %.

- Implemented indexing strategies, stored procedures, and comprehensive data quality checks.
- Collaborated in an Agile team using Git for version control and weekly sprints.

EXPERIENCE & LEADERSHIP

Board Member, Rutgers Sikh Student Organization | Aug 2024 – Present

- Coordinate campus-wide cultural and service events, increasing member engagement by 25 %.
- Manage communication, logistics and budgeting, demonstrating strong leadership and organizational skills.

Volunteer Punjabi Language Instructor, Local Community Center | Aug 2019 – Present

- Plan and teach weekly lessons in Punjabi language and culture to children aged 7–14.
- Develop lesson plans, lead interactive sessions and refine communication and public speaking.

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

- Organized food drives, soup kitchen events and local fundraisers; contributed 200+ service hours to community service.
- Enhanced problem-solving and teamwork skills by coordinating volunteer initiatives and collaborating with diverse groups.

HONORS & EXTRACURRICULAR

- Dean's List, Rutgers University: Fall 2022, Fall 2023, Fall 2024, Spring 2025
- Member, Rutgers Camden Leadership Institute – participated in leadership development workshops and mentorship programs