

# Aashish Joshi

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## Summary —

Data-driven Computer Science student with strong skills in Python, Java, and SQL, with experience building predictive models and analyzing real-world datasets. Demonstrated ability to optimize models, interpret performance metrics, and translate data into actionable insights. Seeking a research-focused opportunity to apply machine learning and analytical problem-solving skills.

## Skills

**Programming:** Python, Java, C++ , PHP, SQL, JavaScript

**Web:** HTML, CSS, Node.js, Express.js, MySQL

**Hardware:** Raspberry Pi, STM32 Microcontrollers

**Languages:** English, Nepali, Hindi, Spanish

## Experience

**Caldwell University, Caldwell, NJ**

Sep 2023 – May 2024

*Teaching Assistant (Academics, Technology & Safety)*

- Facilitated learning for 20+ students in full-stack development through hands-on technical guidance and lab support.

**Caldwell University, Caldwell, NJ**

Aug 2024 – May 2025

*Resident Assistant (RA)*

- Supported a residential community of 30+ students, handling conflict resolution and promoting a safe, inclusive environment.

## Projects

**Data-Driven Machine Learning Project (Kaggle)**

kaggle.com/code/aashishthegreat/project

- Built an ML pipeline in Python and SQL on 10,000+ records; improved ROC-AUC by 10–15% through feature optimization and tuning.
- Interpreted key metrics and model behavior to produce actionable insights for decision-making.

**Collaborative Expense Splitter Web App**

- Developed a full-stack web app for expense management with authentication, tracking, and group chat.

**Python Stock Price Viewer**

- Built a Python Tkinter app using the Alpha Vantage API to display real-time and historical stock data.

**Calorie Calculator**

- Built an application to estimate daily calorie needs based on user input and activity level.

## Education

**New Jersey City University, Jersey City, NJ**

Expected May 2027

*Bachelor of Science in Computer Science*

GPA: 3.75

*Relevant Coursework:*

Data Structures, Artificial Intelligence, Programming Languages

## Leadership & Involvement

**HackRU (Rutgers University), New Brunswick, NJ**

Oct 26–27, 2024

*Hackathon Participant — AI Healthcare Project*

- Built **MediScan AI**; shipped MVP in **24 hours** (team of 4).
- Trained LR+RF on **10,000+** records; ROC-AUC **0.78** → **0.89**; deployed Flask+SQLite; latency **420 ms** → **180 ms**.

**HackNJIT (NJIT ACM), Newark, NJ**

Nov 2–3, 2024

*Hackathon Participant — Smart Finance Assistant*

- Built **SpendSmart** (Python+React) in **36 hours**; anomaly detection with Isolation Forest.
- **92%** accuracy on **5,000+** transactions; failure rate **18%** → **4%** over **100+** tests; **25%** faster tasks (10+ users).

**Robotics Club, Caldwell University**

Spring 2024

*Technical Mentor*

- Mentored junior members on Raspberry Pi and STM32 microcontroller programming and robot assembly.

**Red Cross Society, Kathmandu, Nepal**

Jul 2020 – Dec 2021

*Disaster Response Team Member*

- Contributed to flood and earthquake relief efforts, assisting 50+ individuals through support and aid distribution.

## Honors and Awards

- Caldwell University Presidential Scholarship
- National School Level Chess Champion (Nepal)