

# Rohan Dasanoor

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## EDUCATION

### Purdue University

*B.S. in Computer Science*

West Lafayette, Indiana

*Expected Grad: May 2029*

- Relevant Coursework: CS 18000 (Object-Oriented Programming), CS 19300 (Tools), TDM 10100 (Data Science Computing), MA 26100 (Multivariate Calculus)

## EXPERIENCE

### Engineering Intern

*NASA Glenn Research Center*

August 2025 – June 2026

*Cleveland, OH*

- Worked on a solar-panel electrical board project, testing for the power transmission system
- Designed and tested rover wheel prototypes as part of a mobility and traction project

### Software Engineer Intern

*Cleveland Clinic Akron General*

June 2025 – August 2025

*Akron, OH*

- Analyzed historical data on medical intern performance to inform on program optimization and reporting
- Worked alongside healthcare professionals to test and integrate a new AI-based medical scribe tool, aggregating feedback on usability and accuracy

## PROJECTS

### Vehicle Crash Risk Prediction | *Python, scikit-learn*

- Built a machine learning pipeline using NHTSA's FARS 2024 national crash dataset to predict crash injury severity and generate continuous 0–100 insurance risk scores
- Trained a RandomForestClassifier with class-weight balancing to address class imbalance, using predict\_proba() outputs to drive a premium-multiplier scoring function
- Structured the project into modular components (preprocessing, training, prediction) and resolved dtype/environment issues in a Jupyter/VS Code workflow

### Real-Time Color-Detection Aim Assistant | *Python*

- Built a real-time computer-vision tool that continuously scans the screen for target colors and automates cursor movement and clicks, built to compensate for imprecise aim without a physical mouse
- Iterated past single-color detection after discovering it broke on varying in-game character skins, adding detection logic to disambiguate targets using more than color alone
- Diagnosed latency in the real-time screen-capture loop as the main performance bottleneck under continuous operation

## LEADERSHIP & ACTIVITIES

### Purdue Momentum | *Finance Pillar Member*

*Robust Market Making: Stress-Testing the Avellaneda–Stoikov Model*

Sept 2026 – Present

*West Lafayette, IN*

- Researching a stochastic market-making model, analyzing risk/reward tradeoffs across P&L, drawdown, and tail risk to evaluate strategy robustness

### BEEP | *Mentee*

*Embedded Systems Mentorship Program*

Sept 2026 – Present

*West Lafayette, IN*

- Learning embedded systems fundamentals under mentorship, building toward a team capstone project

## TECHNICAL SKILLS

**Languages:** Python, Java, C#, R

**Tools & Libraries:** scikit-learn, XGBoost, pandas, Git/GitHub, VS Code, Jupyter Notebooks