# Aastha Mittal

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## EDUCATION

**Carnegie Mellon University**, Pittsburgh, PA                                                                          **May 2028**
**Bachelor of Science in Computer Science**
Minor/Concentration: Machine Learning/AI

## WORK EXPERIENCE

**Software Engineer Intern – Nationwide Insurance, Columbus OH**                                    **May 2025 – Present**
- Enhancing Nationwide platforms by building modern backend and frontend features in Java, Angular, and SQL
- Developing risk dashboards that help underwriters assess policies more confidently using Data Analytics

**Software Engineer Intern – Nationwide Insurance, Scottsdale AZ**                          **May 2024 – August 2024**
- Integrated FullStory into internal tools to capture defect logs, streamlining issue reproduction and resolution
- Authored unit tests in Java to validate application logic and enhance software reliability
- Addressed frontend bugs and enhanced navigation flows using Angular, improving overall user experience

**Software Engineer Intern – Axway Inc, Scottsdale AZ**                                                  **June 2023 – July 2023**
- Engineered interactive UI components for an API Management Portal using React and JavaScript
- Engaged with enterprise clients (e.g., Novartis, Engie, US Government Agencies) to gather requirements and refine features

**Technical Intern – Paradise Valley Unified School District, Phoenix AZ**                   **August 2020 – May 2024**
- Built a predictive ML model using GCP BigQuery to address low student performance trends across schools
- Produced interactive visualizations and trained TensorFlow-based models to explore correlations between global climate patterns and educational outcomes

## PROJECTS

**MedEase: Healthcare Made Easy,** Python, Azure, JavaScript, React
- Designed and deployed a multilingual healthcare chatbot trained on CDC datasets to assess user symptoms
- Integrated Firebase and Azure ML to translate documents into 100+ languages and securely manage patient records
- Earned recognition at the International Science and Engineering Fair: Grand Prize, Best Software Project in Arizona, and Best CS Project in Division

**FitForm Analyzer,** Python
- Built a posture correction tool using cosine similarity to assess and compare users' joint positions against ideal exercise form
- Developed an end-to-end system in Python, encompassing data handling, algorithm design, and user interface
- Delivered real-time, personalized feedback to improve form accuracy and injury prevention

**Racial Bias in the Criminal Justice System,** Python, Pandas, TensorFlow
- Remodeled facial detection model using TensorFlow, Python, and statistics with guidance from a Brown University Mentor
- Won Best Project within summer camp

## TECHNICAL SKILLS

**Programming Languages:** Python, C, SML, React, Java, JavaScript, HTML/CSS, and SQL

**Technologies/Frameworks:** JUnit, GitHub, Google Cloud Platform, Amazon Web Services, Big Query

**Certifications:** Python Developer, Java Developer, Computational Thinking, JS, Database, Software Development

## EXTRACURRICULAR ACTIVITIES

**Jane Street Discovery Day**, Attendee (NCWIT National Winner)                                   **April 2024 – Present**
**CMU Quant Club,** Member                                                                                        **August 2024 – Present**
**CMU ScottyLabs (CMU Maps)**, Software Developer                                                  **August  2024 – Present**
**CMU Hindu Yuva**, Social Media and Community Outreach Head                              **January 2025 – Present**
**Professional Speaker**, Speak about Women in Tech and EdTech                              **January 2020 – Present**