

# SAKSHAM RAJBHANDARI

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## EDUCATION

Drexel University - Philadelphia, PA - Bachelor of Science in Computer Science

09/26/2023 - Expected June 2028

- Grade: Sophomore
- GPA: 3.81

## RELEVANT COURSEWORKS

- Computer Programming I, II
- Advanced Programming Tools and Techniques
- Mathematical Foundations in Computer Science
- Computing and Informatics Design I, II, III
- Calculus I, II, II
- Introduction to Software Engineering

## SELECTED EXPERIENCE

Drexel's Digital Development Camp - Philadelphia, PA - *Counselor*

07/08/2024 - 07/25/2024

- Mentored a diverse group of 80 high school students during the 3-week camp focused on full stack development projects.
- Conducted workshops on Python and Pygame, significantly enhancing the coding skills of the entire camp cohort.
- Provided intensive mentorship to 2 teams and contributed over 25 hours of collaborative coding to integrate AI.
- Guided the 2 teams to top finishes, with one implementing YOLOv8 for ASL Translator (1st place), and another using LLM for a hair care application (3rd place).

PlantDoc : Harvesting Hope with AI - Philadelphia, PA - *CI 102/103 Member*

01/07/2024 - 06/10/2024

- Led a team of four to train a CNN model, achieving 94.6% accuracy to detect plant diseases.
- Utilized TensorFlow library to create an input pipeline to feed the model over 56,000 images of 33 different diseases.
- Developed a dynamic, responsive website with HTML/CSS for structure and styling, and JavaScript to enhance user experience.
- Facilitated a seamless connection of the website and the model using FastAPI and JavaScript to receive disease diagnosis.

MeroSiksha - Kathmandu, Nepal - *Intern*

08/02/2022 - 10/07/2022

- Utilized PowerPoint and Canva to create over 100 meaningful and creative animations for science courses.
- Recorded the animations, synchronized audio and video, and uploaded to the MeroSiksha app.
- Enabled students on the MeroSiksha learning app to learn various subjects through these animations.

## PROJECTS

Banking System - Philadelphia, PA - *SE-181 Course Project*

04/01/2024 - 06/10/2024

- Developed a comprehensive banking system using Java, supporting the creation and management of savings, checking, and CD accounts.
- Implemented distinct transaction rules and interest application for each account type.
- Established CI/CD pipelines, ensuring seamless integration and deployment of the system.
- Ensured robustness with 400 test cases, achieving 95% mutation testing coverage with zero code quality issues.

Bio Sortify : AI for greener tomorrow - Philadelphia, PA - *Philly Codefest Contestant*

04/20/2024 - 04/21/2024

- Fine-tuned VGG16 pre-trained model with 200,000 images, achieving 98.8% accuracy in waste categorization.
- Developed a dynamic website with HTML/CSS and JavaScript and integrated the model through FastAPI for image processing and model's result retrieval.
- Currently working to implement YOLOv8 nano model for more precise and accurate waste detection.

## HONORS AND AWARDS

- Dean's List, Drexel University - Awarded for earning a GPA over 3.60 and carrying over 12 credits
- A.J Drexel Scholarship - Awarded based on merit
- Glocal Tech Camp coding bootcamp - Runner up
- Inter-School Basketball Tournament, Olympics day - Winner

## SKILLS

- **Programming Languages:** Python, Java, C, C++, HTML/CSS, JavaScript
- **Tools:** TensorFlow, PyTorch, FastAPI, AWS Sagemaker, Git, Excel, Unix, Linux, OpenCV, Folium
- **Sports:** Basketball, Soccer