Nishanth Pullabhotla

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EDUCATION

University of Pittsburgh | GPA: 4.0   Pittsburgh, PA
Bachelor of Science in Computer Science and Data Science   *December 2026*

Relevant Coursework

Algorithms and Data Structures, Intermediate Programming using Java, Big Ideas in Computing and Information, Programming and Computation, Discrete Structures, Computer Organization and Assembly, Linear Algebra

EXPERIENCE

Audit Bot   January 2025 – Present
Research Volunteer   *Oakland, PA*

- Developing a robot with visible-light and thermal cameras to detect air leaks in windows and doors.
- Using the YOLOv8 model for object detection to improve accuracy in identifying windows and doors from datasets.

Anhata.ai   August 2024 – September 2024
Volunteer Developer   *Pittsburgh, PA*

- Contributed to a startup providing an AI platform as a service to help nonprofits reduce operational overhead.
- Utilized AWS CDK to configure essential services, including API Gateway, Lambda Functions, S3 Buckets, and Kendra Index to setup a data pipeline.

Val-Lerie Hair Designs   May 2022 – August 2024
Social Media Intern   *Wexford, PA*

- Designed and managed a website, showcasing staff and specialized hair services to enhance client engagement.
- Created 30+ social media posts, optimizing content timing on Instagram and Facebook to boost visibility and streamline online appointments.

PROJECTS

Basketball Winner Prediction | *Python, scikit-learn, Pandas, NumPy*   May 2024 – August 2024

- Developed a machine learning model to predict basketball game winners using historical data from the 2021-22 to 2023-24 seasons, achieving 71% accuracy with logistic regression and cross-validation.
- Used pandas to preprocess data from an unofficial NBA API, improving model accuracy.
- Integrated the model into a Flask application, creating a user-friendly webpage that allows users to enter a team and receive predictions on whether it will win or lose its next upcoming game.

Real-Time ASL to Speech Translator | *Python, Tensorflow*   July 2024 – August 2024

- Built a real-time ASL-to-speech translator allowing users to form sentences in ASL and convert them into speech.
- Trained TensorFlow SSD MobileNet on ASL gestures annotated with LabelMe to improve recognition accuracy.
- Developed a user-friendly webpage that integrates ASL gesture recognition and speech conversion.

LEADERSHIP/INVOLVEMENT

Crohn's Care Alliance – University of Pittsburgh   February 2025 – Present
President   *Pittsburgh, PA*

- Leading the launch of Crohn's Care Alliance @ Pitt to raise awareness and support for individuals with Crohn's Disease
- Organizing fundraisers and educational STEM events about Crohn's Disease to get motivated students involved on campus
- Collaborate with local leaders to study the intersection of tech and medicine in a potential cure to Crohn's Disease

TECHNICAL SKILLS

Languages: Java, Python, HTML, CSS, MIPS
Frameworks: Flask, AWS CDK/AWS Console
Developer Tools: VS Code, Eclipse, AWS (Lambda, API Gateway, S3, Kendra), Jupyter Lab, Terminal, Anaconda
Libraries: TensorFlow, scikit-learn, pandas, NumPym, OpenCV, Ultralytics YOLOv8
Certifications: Python PCEP-30-02