

# Ameya Deshmukh

2214 Auburn-AVE Cincinnati, Ohio 45219

+1(513)-223-8232 | deshmuau@mail.uc.edu | [linkedin.com/in/ameya-deshmukh-90907b1a9](https://www.linkedin.com/in/ameya-deshmukh-90907b1a9)

## EDUCATION

### University of Cincinnati

Bachelor of Science, Computer Science.

**Graduating: May 2025**

**GPA: 4.00**

- Received the Mantei Award for scoring and maintaining the highest GPA for two consecutive years.
- Awarded the UC Global Scholarship and the CEAS International Outreach Scholarship.

## SKILLS

**Languages:** Python, C++, SQL, MATLAB, VBA, Java, R, HTML, CSS.

**Software:** KNIME, Power BI, Azure Databricks, LRCP story, PR Story Pro, Analyzer, Staffing Optimization App.

**Tools:** Google Colab, JupyterLab, GitHub, Watson Studio, Visual Studio, Android Studio, LabView.

**Libraries:** TensorFlow, OpenCV, PyTorch, Keras, Pandas, NumPy, NLTK, Scikit-learn, Matplotlib, Seaborn, Folium.

**Certificates:** Deep Learning Specialization, TensorFlow: Advanced Techniques Specialization, TensorFlow: Data and Deployment Specialization, Generative Adversarial Networks (GANs) Specialization, AI for Medicine Specialization.

## EXPERIENCE

### UC Simulation Centre | Supply Chain Analyst | Cincinnati, OH

**Jan 2022 – Apr 2022**

- Worked on Long-Range Capacity Planning (LRCP) and Customization Models Projects with P&G team and mentors.
- Simulated European P&G customer's demand scenarios to explore cost-saving alternatives in the supply chain model.
- Implemented Analyzer to Analysis of Office transition that allowed the project to resume after 2 months of stagnation.
- Fixed 30+ issues by creating new nodes in KNIME workflow which pulled data from Azure Databricks' data cluster.

### College of Engineering and Applied Sciences | Teaching Assistant | Cincinnati, OH

**Aug 2021 – Dec 2021**

- Responsible for the grading of homework, quizzes, and exams for a CS1100 course having over 300 students.
- Proctored all lecture quizzes and exams and attended other meetings scheduled by the course instructor.

### University of Cincinnati | NLP Research Assistant | Cincinnati, OH

**May 2021 – Aug 2021**

- Gained in-depth knowledge on specific research topics like regulatory compliance and software traceability.
- Built NLP Algorithms in Python to generate and rank policy clauses for specific breach reports using NLTK library.
- Used Jaccard distance and TF-IDF index to find the similarity between policies and breach reports.

## PROJECTS

### Driver Drowsiness Detection System | OpenCV

**Feb 2022 – Mar 2022**

- Built a Sleep Sensing and Alerting System for Drivers using Raspberry Pi, OpenCV, and Pi camera module.
- The basic purpose of this system is to track the driver's facial conditions like yawning and eye movements, then the system will trigger a warning message considering the distance between the facial points on the eyelids and lips.

### Human Face Generator | TensorFlow

**Jan 2022 – Feb 2022**

- Developed a custom neural network to generate novel facial images using Deep Convolutional GANs.
- Constructed both the generator and the discriminator models for performing the task of face generation.
- Utilized TensorFlow and Keras deep learning frameworks to build the entire architecture of this project.

### Lung Cancer Detection using CNN | TensorFlow

**Jan 2022 – Feb 2022**

- Developed algorithms, implementing CNN, that can accurately determine when lesions in the lungs are cancerous.
- Using the dataset of CT images from high-risk patients in DICOM format, created an automated method capable of determining whether the patient will be diagnosed with lung cancer within one year of the date the scan was taken.

## ACTIVITIES

### Dancing Angels Dance Academy | Dancer

**Jan 2016 – Feb 2022**

- Experienced and trained Hip Hop dancer and choreographer.

### Akhil Bhartiya Gandharva Mahavidyalay Mandal | Musician

**Jan 2015 – Sep 2019**

- Secured 'First' Grade in Classical Instrument - Tabla (Level 3 Examination).

### Universal Shotokan Karate | Martial Arts

**Jun 2014 – Aug 2020**

- Secured 'Black Belt' with 'A' grade in Karate.

## HONORS & AWARDS

- Scored 800/800 in SAT Mathematics, 800/800 in College Board Mathematics subject test and won AP Scholar award.
- Captained the high school soccer team and won "Sportsperson of the Year" award for an exceptional performance.

Available for Co-op / Internship – Fall 2022