

# Aishwarya Dekhane

[dekhane.aishwarya@gmail.com](mailto:dekhane.aishwarya@gmail.com) | (313)467-8835 | Dearborn, MI, USA

[aishwaryadekhane.github.io](https://github.com/aishwaryadekhane) | [www.linkedin.com/in/a-dekhane](https://www.linkedin.com/in/a-dekhane) | [github.com/AishwaryaDekhane](https://github.com/AishwaryaDekhane)

## Education

### University of Michigan

Masters in Artificial Intelligence, Graduation: 2025, GPA: 4

Dearborn, MI, USA

Aug 2023 - Present

### Savitribai Phule Pune University

Bachelor of Engineering in Computer, Graduation: 2019, GPA: 3.81

Pune, India

Jul 2015 - Aug 2019

## Work Experience

### Infosys Ltd - Pune, India - Technology Analyst

Dec 2019 – Aug 2023

- Developed over 10 proofs-of-concepts and prototypes using various analytical softwares such as Tableau, KNIME, along with Python for Visual Analytics, significantly enhancing data visualization and analysis capabilities.
- Automated key processes for a USA-based bank by redesigning EUCs and workflows, including life insurance claim processing, using NLP (NLTK) and Corpora Based Tagging, saving the bank 15 hours weekly and improving accuracy by 25%.
- Collaborated with geographically distributed teams across Treasury, Capital, FP&A, COE Finance Transformation, and Ops, implementing AI and ML models that accurately predicted stock prices, impacting over 50 client portfolios.
- Managed and streamlined software development projects using Jira and Confluence, leading to a 40% increase in project delivery efficiency and team collaboration.

### Oasis Software Solutions - Pune, India - Intern

Jun 2019 – Nov 2019

- Analyzed and processed over 1,000 data sets to improve machine learning model accuracy by 15%.
- Developed and tested 5 innovative algorithms, enhancing system efficiency.
- Collaborated with a team of 10 engineers to integrate AI, into existing products, increasing user engagement by 30%.

## Skills

- Operating Systems** - Linux/Unix, Windows, MacOSx
- Programming Language** - Python, R, Swift, C, C++, Java, JS, PHP
- Data Science Skills** - Data Cleaning, Data Visualization, Data Analysis, Web Scraping, Classification
- Graphics Technologies** - OpenGL, OpenGL ES, WebGL, DirectX, Vulkan, Metal, CUDA, GLUT, OpenCL, Unity
- AI and Machine Learning** - OpenCV, Yolo, Sklearn, Matplotlib, Numpy, Pandas, Azure AI, ANN, CNN, RNN, DL, NLP
- Tools** - Visual Studio, PyCharm, Jupyter Notebook, GitHub, Jira, Confluence, Tableau, PowerBI, MS Office

## Projects

### SkinSight- HSV-Based Skin Detection in Images - Thresholding, Ethical AI, HSV Color Space, Machine Learning [\[Code\]](#)[\[Link\]](#)

- Skin tones in the image were precisely identified by combining color space analysis and thresholding. Saturation above 40 and specific hue range isolated skin pixels, boosting accuracy.

### Food Recognition- Advanced Contour and Edge Detection in Image Processing - Numpy, Counter Analysis, Erosion [\[Code\]](#)[\[Link\]](#)

- Multi-step image processing pipeline involving HSV color space conversion, thresholding, Canny edge detection, and contour analysis; precisely identified objects, refined with edge detection enhancements.

### Road Sight Navigator- Lane Line Detection: OpenCV, Canny Edge Detector, Hough Line Transform, Edge Detection [\[Code\]](#)[\[Link\]](#)

- Harnessing advanced computer vision algorithms, this road lane line detector meticulously delineates vehicular pathways, augmenting navigational precision for autonomous driving systems.
- Leveraging the potency of OpenCV and Hough Transform techniques, the project adeptly identifies and demarcates lane lines, significantly enhancing real-time vehicular guidance and road safety.

## Research Paper

- Centralized Multipurpose Transportation System - [\[Paper\]](#)
- Improved Deep Learning Framework for Segmenting and Classifying Skin Lesions using K-nearest neighbor algorithm and Multi-Instance Learning - [\[Paper\]](#)

## Certifications

- Microsoft Azure AI | AI900: Certification Number: I274-1040 [\[Link\]](#)
- Microsoft Azure Fundamentals | AZ900: Certification Number: I013-5362 [\[Link\]](#)
- Certified Graphics Developer | AMC: Certification Number: RTR-GM-2018-N0L2P90YQV [\[Link\]](#)
- PCEP Certified Python Programmer | Python Institute: Certification Number: Aup7.CPpy.4nnX [\[Link\]](#)