Aishwarya Dekhane

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Education

University of Michigan	**Dearborn, MI, USA**
Masters in Artificial Intelligence, Graduation: 2025, GPA: 4	Aug 2023 - Present
Savitribai Phule Pune University	**Pune, India**
Bachelor of Enginerring in Computer, Graduation: 2019, GPA: 3.81	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 deesigning 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 - AI/ML 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 - Threshoding, 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-N0L2P9OYQV [Link]
- **PCEP Certified Python Programmer | Python Institute**: Certification Number: Aup7.CPyy.4nnX [Link]