

LAKSHMAN KRUTHIK MANUBOLU

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Portfolio : <https://portfolio-tau-ten-39.vercel.app/>

EDUCATION:

Oregon State University, Corvallis, Oregon. (September 2023 - Expected March 2025)

M.S in Computer Science GPA - 3.91/4.00

Amrita Vishwa Vidhyapeetham, Bangalore.

B.Tech in Computer Science, GPA - 7.26/10.00 (July 2017 - May 2021)

TECHNICAL SKILLS:

C, Java, HTML, CSS, Javascript, Python, Haskell, SQL, Database management systems, Figma, Nodejs, ReactJs, ExpressJs, LightningJs, Blender, RStudio, Bash, Linux, OpenGL.

CERTIFICATIONS:

- Certified in Data Science using Python from Udeemy in the year 2022.
- Certified in Full Stack Development from Udeemy in the year 2024.

WORK EXPERIENCE:

BDFL Technologies Pvt Ltd/10x Academy, Hyderabad Academic Mentor (Nov 2022 - Aug 2023)

- Interacted with students regarding the classes for UI Development and Data Structures.
- Evaluated their understanding and assigned web development and machine learning projects.
- Led a team to review the performance of students and analyze the weaknesses of a particular student.

Tata Consultancy Services, Bangalore Assistant Systems Engineer (July 2021 - Aug 2022)

- Engaged in a User Experience(UX) TV application project associated with Comcast. The application is made with a Javascript framework (LightningJS).
- Created a testing application named MIDAS that uses React JS and Express JS. The application is used for testing various TV applications.

PROJECTS:

- **Analysis of Membership Inference Attack** (Feb 2024). Oregon State University, Oregon.
This is a study that evaluates metric-based attack models against the MemGuard defence method using the Purchase 100 dataset. Results show a significant reduction in attack accuracy, challenging the universal effectiveness of such attacks. Key findings reveal dataset-specific variations in defence performance.
- **Plant Disease Detection Using Image Processing** (May 2021). Amrita Vishwa VidyaPeetham, Bangalore. Created a software that can find the diseases in plants at early stages to reduce crop damage by use of image processing techniques and deep learning techniques. The programming language is Python and Keras and Tensorflow for defining neural networks.
- **Drowsiness Detection System For Drivers** (Jan,2020). Amrita Vishwa VidyaPeetham, Bangalore. Developed the system which gives warning messages to the drivers to ensure the safety using eye blinks and eye closure. The Haar Cascade Classifier has been used to detect the face and eyes of the driver.
- **Airline Reservation System** (September, 2019). Amrita Vishwa VidhyaPeetham, Bangalore. Depicted the web application using HTML, CSS and Javascript. The user will buy the tickets from a particular airline on a certain date and pay as per the ticket. Firebase is utilized as the database.
- **Stock Management System** (September, 2018). Amrita Vishwa VidhyaPeetham, Bangalore. Depicted the interface using HTML and CSS between the stock manager and the user. The user will buy the items from stock and pay as per the list. MySQL is utilized as the database and the connectivity is done using PHP.