LAKSHMAN KRUTHIK MANUBOLU

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TECHNICAL SKILLS

- **Languages and Frameworks** - Python, Java, C++, C, JavaScript, HTML, CSS, SQL, Bash, Haskell, OpenGL
- **Tools** - Git, Jira, Pandas, Numpy, Scikit, OpenCV, React, Angular, Node.js, Express.js, MongoDB, Google Firebase, Cisco Packet Tracer
- **Paradigms** - Agile, Machine Learning, Deep Learning, NLP, Data Structures, Linux, PowerShell, Responsive Design, Version Control
- **Soft Skills** - Adaptability, Problem Solving, Teamwork, Mentoring, Agile Development, Independent Work, Communication

EDUCATION

Oregon State University — **Sep 2023 - Mar 2025**
Master of Engineering in Computer Science — *GPA: 3.91*
- Location: Corvallis, Oregon, USA

Amrita Vishwa Vidyapeetham — **July 2017 - May 2021**
Bachelor of Technology in Computer Science — *CGPA: 7.26*
- Location: Bengaluru, India

WORK EXPERIENCE

BDFL Technologies/10x Academy — **Hyderabad, Telangana, India**
Academic Mentor — *Nov 2022 - Sept 2023*
- Mentored students in UI Development and Data Structures, enhancing problem-solving skills by 15% weekly.
- Assigned and evaluated web development and ML projects for practical application.
- Led a team to analyze student performance, addressing weaknesses to improve competency.

Tata Consultancy Services — **Bengaluru, Karnataka, India**
Application Developer — *July 2021 - Aug 2022*
- Developed a UX TV app for Comcast using LightningJS to enhance the user interface.
- Built a testing app (MIDAS) with React JS and Express JS for TV app testing.
- Analyzed Xfinity set-top box performance with Bash, improving efficiency by 50%.

PROJECT EXPERIENCE

SpendSmart - Expense Tracker Web App — **Feb 2025**
- Using the MERN stack (MongoDB, Express.js, React, and Node.js), SpendSmart is a contemporary, intuitive cost monitoring tool. With the use of a 3D financial overview chart, expense/revenue tracking, and other tools, users can effectively manage their income and expenses.

Analysis of Membership Inference Attack — **Feb 2024**
- 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**
- 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**
- 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.

Warning System For Drivers — **Jan 2020**
- Developed the appropriate warning messages for the drivers to ensure the safety using Deep Learning techniques like python. A pre-trained model for detecting the object and Haar Cascade Classifier is used for traffic sign board detection and crowd detection.

Airline Reservation Systems — **Sep 2018**
- 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 Systems — **Sep 2019**
- 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.

CERTIFICATIONS

- Certified in Data Science using Python, Udemy, 2023
- Certified in Full Stack Web Development, Udemy, 2025