Vamshi Krishna Janagama

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# EDUCATION

## Master of Science in Data Science - GPA: 4.0/4.0 May 2026

*University of Houston, TX*

## Bachelor of Technology in Computer Science Engineering (AI) - GPA: 3.49/4.0. May 2024

*Amrita Vishwa Vidyapeetham, India*

# SKILLS

# ****Programming & Databases:**** Python, React, PowerShell, MySQL, SQLite

# ****Data Science & Machine Learning:**** Scikit-learn, TensorFlow, PyTorch, Pandas, NumPy, Matplotlib, Feature Engineering, Regression & Classification Models, CNNs, Ensemble Methods

# ****Web Development:**** HTML5, CSS3, JavaScript, Django, .NET Core (Razor), React

# ****Tools & Platforms:**** Git/GitHub, Jupyter Notebook, VS Code, VMware, Linux (Ubuntu)

# WORK EXPERIENCE

**Software Developer Intern – ΣCare Medical Group**   May 2025 – Aug 2025

*Houston, TX, USA*

* Built and deployed a **HIPAA-compliant healthcare website** using .NET Core (Razor Pages), integrating service-specific content and improving accessibility and patient engagement while ensuring secure patient data handling.
* Developed and extended **.NET Core backend solutions** to automate clinical and administrative workflows, enhancing operational efficiency and ensuring compliance with healthcare data standards.

# ****Graduate Teaching Assistant – User Experience Design (DIGM 1376)****   May 2025 – Current *University of Houston, Tx, USA*

# Guided undergraduate students in ****UX research and design methods****, providing support on usability testing, wireframing, and prototyping tools to strengthen design and problem-solving skills.

# Assisted with ****grading, classroom activities, and project development****, ensuring course objectives were met and students gained practical experience in user-centered design.

# CERTIFICATIONS

* **Advanced Deep Learning with Keras** – [DataCamp](https://uofh-my.sharepoint.com/my?viewid=d95fbacc%2D6d8f%2D46b7%2D8e15%2D24ee4b2e5df6&id=%2Fpersonal%2Fvjanagam%5Fcougarnet%5Fuh%5Fedu%2FDocuments%2FCertificates%2Fcertificate%20%281%29%2Epdf&parent=%2Fpersonal%2Fvjanagam%5Fcougarnet%5Fuh%5Fedu%2FDocuments%2FCertificates) (Apr 2023) | **Python Programming** – [Kaggle](https://uofh-my.sharepoint.com/my?viewid=d95fbacc%2D6d8f%2D46b7%2D8e15%2D24ee4b2e5df6&id=%2Fpersonal%2Fvjanagam%5Fcougarnet%5Fuh%5Fedu%2FDocuments%2FCertificates%2FJanagama%20Vamshi%20Krishna%20%2D%20Python%2Epng&parent=%2Fpersonal%2Fvjanagam%5Fcougarnet%5Fuh%5Fedu%2FDocuments%2FCertificates) (Sep 2021)
* **Complete Front-End Web Development Course** – [Udemy](https://uofh-my.sharepoint.com/my?viewid=d95fbacc%2D6d8f%2D46b7%2D8e15%2D24ee4b2e5df6&id=%2Fpersonal%2Fvjanagam%5Fcougarnet%5Fuh%5Fedu%2FDocuments%2FCertificates%2FWedevelopment%2Epdf&parent=%2Fpersonal%2Fvjanagam%5Fcougarnet%5Fuh%5Fedu%2FDocuments%2FCertificates) (2021)

# PROJECTS

**Spatial Analysis-Enhanced Dermatological Image Classification for Paronychia**

Machine Learning & Computer Vision Project Nov 2023

* Designed a deep learning pipeline combining **U-Net segmentation, spatial analysis, and CNN architectures** (ResNet34, VGG16, DenseNet121, InceptionV3, EfficientNet) to classify dermatological images from the **Dermnet dataset**.
* Improved classification accuracy up to **97.1% (InceptionV3)** by integrating spatial analysis-driven confidence scores; results published in **IEEE Xplore** ([DOI: 10.1109/ACCESS.2024.10395209](https://ieeexplore.ieee.org/document/10395209)).

**Restaurant and Food Services Management System**  
 *Web/Database Development Project* May 2025

* Designed and developed a web-based platform for **food ordering, reservations, and inventory tracking**, enabling seamless interaction between customers and restaurant admins.
* Implemented **MySQL database with ERD, relational constraints, and PHP-MySQL integration**, ensuring data integrity while streamlining restaurant workflows and service management.

# VOLUNTEER EXPERIENCE

## Robotics Club

*Amrita Vishwa Vidyapeetham, India* Nov 2022 – May 2024

* Built and programmed Obstacle Avoidance and Line-Following Robots using ROS, collaborating with peers to design, test, and refine systems while gaining hands-on experience in automation, sensors, and path-planning algorithms.