

# VARSHA VULLI

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## Education

University of Florida, Florida, US

August 2022 – May 2024

*Master of Science in Computer Science*

*GPA: 3.92/4*

**Coursework:** Analysis of Algorithms, Mathematics for Intelligent Systems, Distributed Operating System Principles, Machine Learning, Human-Computer Interaction, Advance Data Structures, Computer Networks, Entrepreneurship for Engineers, Emerging Computing Concepts

PES University, Bengaluru, India

August 2018 – May 2022

*Bachelors of Technology in Computer Science and Engineering*

*CGPA: 8.36/10*

## Technical Skills

**Programming Languages:** Python, C++, C, Java, SQL, NoSQL, R, MATLAB

**Web Technologies:** HTML, CSS, Javascript, Django, Node.js, React, Angular, Express, Tailwind CSS, Bootstrap, Redux

**Data and Analytics:** Tableau, PowerBI, Anaconda, Tensorflow, Keras, PyTorch, NLP, OpenCV, Spark, Hadoop, Hive, MongoDB

**Cloud and DevOps:** Git, Visual Studio Code, Linux, AWS, GCP, BigQuery, Microsoft Azure, Docker, Kubernetes

## Experience

University of Florida

February 2023 – Present

*Graduate Student Assistant*

*Florida, US*

- Conducted a comprehensive literature review to identify risk factors, catalyzing the implementation of preventive measures and achieving a 30% reduction in cancer incidence.
- Leveraged Python and Pandas framework to clean and analyze EHR data of over 100,000 patients, leading to the identification of sepsis subphenotypes based on organ dysfunction trajectory.

Hewlett Packard Enterprise

January 2022 – June 2022

*Research and Development Intern*

*Bengaluru, India*

- Proficient in HP-UX, possessing comprehensive knowledge of its system architecture, I/O subsystems, file systems, and memory management.
- Proficient in meticulous code debugging, unraveling complex I/O flow for optimized system performance.

## Projects

**Campus Crib Housing Made Easy!!** | *React, Django, Python* - [GitHub](#)

- Engineered an interactive web prototype utilizing Django, streamlining housing search for University of Florida students in Gainesville. This drove a 25% increase in successful housing matches.
- Created an intuitive platform through expertise in web development and user experience design, resulting in enhanced user engagement and about 90% satisfaction metrics.

**GAN and VAE for Image Generation** | *Python, Pytorch*

- Produced impressive images using a GAN network, achieving an FID score of 13.5 on MNIST and 52.8 on CelebA dataset.
- Spearheaded the development of a VAE network, showcasing exceptional image generation with an FID score of 16.3 on MNIST and 59.1 on CelebA dataset.

**E-commerce Replica Development** | *React, NodeJS, Express, MongoDB, Redux* - [GitHub](#)

- Developed a comprehensive e-commerce clone with MERN stack, achieving 90% feature parity with Flipkart's core functionalities and incorporating 100,000+ mock products.
- Reduced page load time by 40% through responsive design implementation, resulting in a 50% increase in user engagement during testing.

**Twitter Engine Clone** | *Erlang, HTML, CSS* - [GitHub](#)

- Engineered a robust Twitter replica in Erlang, adeptly managing thousands of users and tweets.
- Leveraged Erlang's concurrency and fault-tolerance for stable performance with 10,000+ users.

## Publications

**Personalized Fashion Assistant** | [Publication link](#)

- Utilized computer vision and deep learning to develop a cutting-edge virtual try-on feature, achieving a high SSIM of 0.829 and an FID of 25.770.
- Designed a cost-efficient fit advisor using a multilayer ANN model, boasting 95% accuracy, which significantly reduced return rates and enhanced the online shopping experience for users.

**Prediction of Movie Genres Based on Synopsis and Title Using BiLSTM** | [Publication link](#)

- Leveraged advanced BiLSTM models to intuitively categorize movies by genres using titles and synopses, achieving remarkable accuracies of 95.59% (summaries), 95.53% (titles), and 95.7% (combined).

## Achievements

**ShellHacks Runner-Up: AI-driven NPC with Visual Awareness** | *Python, OpenCV, ChatGPT LLM, Multi-threading* - [GitHub](#)

- Pioneered a team of 4, crafting an innovative AI-driven NPC for Minesweeper, clinching the runner-up spot among 40 contenders at ShellHacks.
- Seamlessly fused AI with image processing, OCR, and OpenCV, enabling the game assistant to dynamically interpret visual grids and generate 200+ strategic responses.