

Goutham Mallavolu

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Profile Summary

I am deeply passionate about leveraging technology to solve complex problems. My academic journey has equipped me with a strong foundation in Machine Learning concepts and in Deep Neural Networks. I thrive on exploring innovative applications of AI across various fields, from healthcare to environmental sustainability. Through collaborative projects and research, I aim to contribute to advancements that make a meaningful impact on society. Outside of my studies, I enjoy engaging with the AI community to stay updated on the latest trends and breakthroughs.

Education

Florida Atlantic University

August 2024 – (expected) May 2026

Master of Science, Artificial Intelligence | GPA: 4.0

Boca Raton, Florida, United States

Gandhi Institute of Technology and Management

2017 – 2021

Bachelor of Technology, Computer Science and Engineering | GPA: 3.59

Hyderabad, Telangana, India

Technical Skills

Programming Languages: Python, C, C++, JAVA, SQL, HTML, CSS, JS.

Packages: TensorFlow, PyTorch, Keras, NumPy, Pandas, Matplotlib, Scikit-Learn, Flask.

Software / API Tools: Jenkins, CI/CD, Bitbucket, Postman, JIRA, Dynatrace, Splunk.

More Skills: Data Preprocessing, Data Modelling, Agile, Debugging, Root Cause Analysis.

Work Experience

Graduate Teaching Assistant

August 2025 – Present

Florida Atlantic University | Boca Raton, Florida, United States

Course: Introduction to Artificial Intelligence

- Guiding more than 140 undergraduate students in AI, ML, NLP, DL topics through office hours, labs, and project mentoring.
- Designed and grading assignments focused on AI search algorithms and ML models.
- Delivering technical tutorials on Python, ML and other AI topics.
- Collaborating with professor on course content and student performance evaluation.

Developer

April 2022 – April 2024

Tata Consultancy Services | Hyderabad, Telangana, India

Technical skills Used: Jenkins, JIRA, Bitbucket

- Developed and maintained middleware solutions, managing the full development lifecycle from requirements gathering to production deployment.
- Designed, implemented, and integrated APIs and microservices for seamless system communication.
- Worked in an Agile environment, actively participating in sprint planning, daily stand-ups, and retrospectives.
- Implemented Jenkins CI/CD pipelines for automated builds, testing, and deployment, ensuring efficient and reliable production releases.
- Deployed applications onto servers, monitored performance, and troubleshoot issues to ensure smooth operations.

Support Executive

July 2021 – March 2022

Tata Consultancy Services | Hyderabad, Telangana, India

Technical Skills: ServiceNow, Dynatrace, Code Analysis, Splunk

- Provided technical support to users, troubleshooting and resolving application access issues.
- Monitored server performance, identified issues, and implemented solutions to ensure system stability.
- Managed production support activities, ensuring smooth workflow and issue resolution during project Go-Live.
- Collaborated with development and operations teams to enhance system reliability and user experience.
- Documented issues, resolutions, and best practices to streamline support processes.

Projects

Real time age detection using CNN | Python, Computer vision, NumPy

- Designed and developed a facial age estimation system using advanced computer vision and machine learning techniques.
- Utilized pre-trained Caffe models, specifically trained on the UTKFace dataset, to analyse facial features for accurate age prediction.
- Employed deep learning models, particularly Convolutional Neural Networks (CNNs), to process and interpret facial images with high precision.
- Integrated data visualization functionality to display age prediction results in the form of pie charts, providing a clear representation of age distribution.

Natural Image Deblurring using RNN | Pandas, NumPy, TensorFlow, Flask, CV

- Developed a deblurring solution using deconvolution strategies and RNN with LSTM networks to enhance image quality.
- Utilized the GOPRO dataset (1029 blurred and 1029 sharp 1280x720 images) for model training.
- Applied frequency updating techniques to partially restore sharpness in blurred images.
- Focused on improving image clarity through advanced machine learning and image processing techniques.

Soft Skills

- Communication
- Problem-solving
- Team Work
- Research
- Highly-Motivated
- enthusiastic.

Certifications

- OpenCV Bootcamp | OpenCV University
- Intermediate Technical Interview (Advanced) | Codepath
- Gen AI intensive | Kaggle & Google
- LLMOPS | DeepLearning.Ai
- TensorFlow for deep learning bootcamp | Udemy
- Pytorch for deep learning bootcamp | Udemy
- Machine Learning (A-Z) | Udemy
- Python 3 Programming Specialization | Coursera
- Python Data Structures | Coursera
- Machine Learning Algorithms | Coursera