

# G S MAHITHA

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## Skill Summary

A highly motivated and detail-oriented AI & ML enthusiast with a strong foundation in programming and data-driven problem-solving. Proficient in Python, Java, and C, with expertise in machine learning, deep learning, and natural language processing. Skilled in database management using MySQL and experienced with Git for version control. Passionate about applying AI solutions to real-world challenges, particularly in healthcare and computer vision.

## Education

<b>Bachelor of Technology in CSE (AI &amp; ML)</b>	<b>2022-2026</b>
B V Raju Institute of Technology, Narsapur, Medak, Telangana, India	<b>CGPA: 8.76</b> (till 5 <sup>th</sup> sem)
<b>Intermediate</b>	<b>2020-2022</b>
Narayana Junior College, Hyderabad, India	<b>Percentage:97.8%</b>
<b>10<sup>th</sup> Class (State Board.)</b>	<b>2019-2020</b>
Sri Chaitanya Techno School, Hyderabad, India	<b>CGPA:10</b>

## Skill Set

- **Programming Languages:** Python, C, Java, Haskell
- **AI & ML:** Machine Learning, Deep Learning, NLP, Computer Vision
- **Database:** MYSQL
- **Development Tools:** Git, VS Code
- **Python Libraries and Frameworks:** NumPy, Pandas, Matplotlib, Scikit-learn, TensorFlow

## Projects

- **Bridging Visual and Auditory Domains: Object Recognition, Speech Synthesis with User Voice Input**
  - Designed an accessible system for visually impaired users by integrating real-time object recognition using the YOLO algorithm and audio feedback through a Text-to-Speech engine.
  - It enables real-time object-to-audio conversion for visually impaired users by applying Machine Learning, Deep Learning, Computer Vision, and Python.
- **Securing Personal Identity in Facial Recognition using Machine Unlearning**
  - The project explores advanced machine unlearning techniques using MUFAC and MUCAC datasets to enhance privacy and compliance in facial recognition, addressing trade-offs between data protection and model accuracy.
  - Developed a privacy-preserving machine unlearning methods while maintaining model utility.
- **Integrating NAS for Human Pose Estimation**
  - Pose Neural Fabric Search (PoseNFS) introduces a novel NAS framework leveraging domain-specific knowledge for human pose estimation.
  - It optimizes part-specific architectures, achieving superior accuracy and computational efficiency on complex datasets by applying Cell-based Neural Fabric (CNF) and advanced NAS for keypoint detection
- **Multi-Scale CNN on Image-Net Dataset**
  - Designed and implemented a multi-scale convolutional neural network (CNN) to enhance image classification performance on the ImageNet dataset.
  - Optimized feature extraction across multiple resolutions to improve accuracy and robustness.

## Workshops Attended

- **Front-End Web Development-** Conducted by Techgyan Technologies, [Feb, 2025]
  - Learned HTML, CSS, JavaScript, and mongo db for dynamic web apps.
  - Participated in a hackathon as part of the workshop and won, where we built a web application.

- **Front-End Web Development using JavaScript – TASK Workshop, [Feb, 2025]**
  - Learned Covered JavaScript fundamentals, DOM manipulation, and responsive web design.
  - Hands-on practice with real-world web development project.

## Certifications

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- Python Programming (Udemy)
- Database Programming with SQL (Oracle)
- Privacy and Security in Online Social Media (NPTEL)
- Design and analysis of algorithms (NPTEL)
- Soft Skills (NPTEL)
- Responsible & Safe AI Systems (NPTEL)
- Introduction to Cyber Security (Infosys)
- Fundamentals of Information security (Infosys)
- Front-End Web Development Hackathon Winner (Techgyan Technologies)

## Hackathons

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- **Winner- Techgyan Technologies (2025)- Front-End Web Development**  
Developed a similar version of Techgyan technologies web page using Html, CSS, Java Script within a limited timeframe.
- **Smart India Hackathon (SIH 2024)- AI-based Customized Time Slot Delivery of Articles/Parcels**  
Developed an AI-driven system for optimizing parcel delivery slots based on user preferences and logistics constraints.
- **Techgium 2024 – Latent Emotion Detection of a Machine**  
Designed and implemented a system for detecting latent emotions in machines using NLP and deep learning techniques.

## Paper Publications

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- **Securing Personal Identity in Facial Recognition: The Shift to Machine Unlearning**  
4th International Conference on Sustainable Expert Systems (ICSES 2024)  
DOI: <https://doi.org/10.1109/ICSES63445.2024.10763384>  
Publisher: IEEE
- **Integrating NAS for Human Pose Estimation**  
International Conference on Evolutionary Computing and Mobile Sustainable Networks (ICECMSN 2024)  
DOI: <https://doi.org/10.1016/j.procs.2024.12.020>  
Publisher: Science Direct

## Extracurricular Activities

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- **Member, ACM Council** (oct,2024-present)
  - Engaged in organizing and managing ACM-related activities.