

# Prakki Gayatri Naga Soujanya

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## Education

**Chaitanya Bharathi Institute Of Technology**  
*B.E - Information Technology CGPA: 8.93/10*

2022 – 2026

📁 Portfolio

**Nano Junior College**  
*Intermediate-+2 Percentage: 95.1%*

2020–2022

**St. Anns's High School,Secunderabad**  
*CICSE-Class 10 Percentage: 90%*

2008–2020

## Experience

### Research Intern

*National Institute of Technology, Warangal*

*Summer Internship*

*May 2025 – Present*

- o Focused on enhancing **YOLOv11** for uncertainty-aware object detection by integrating probabilistic modeling into the bounding box regression head.
- o Replaced traditional IoU-based loss with **Gaussian Negative Log Likelihood (NLL)** loss to estimate both mean and variance, capturing model confidence.
- o Conducted extensive experiments on the **VisDrone dataset**, analyzing the trade-off between accuracy and uncertainty in challenging aerial scenes.

### Machine Learning Intern

*AICTE Ideas Labs*

*Industrial Internship*

*July 2024 – Sept 2024*

- o Built a machine learning pipeline to extract entity values from **30,000+** images, using Tesseract OCR and preprocessing, achieving an **F1 score of 0.622** through model optimization.
- o Streamlined **data workflows** to efficiently handle large datasets and predict values for classes like item weight, dimensions, and voltage, ensuring real-world application reliability.

### Full Stack Developer Intern

*CodeSprint*

*Remote*

*Oct 2023 – Dec 2023*

- o Developed a full-stack e-commerce platform using the MERN stack, featuring **user authentication**, product listing, and **advanced search filters** for categories, price ranges, and ratings.
- o Optimized database management for scalability, supporting **10,000+** products, and implemented a **recommendation system** to enhance user engagement.

## Projects

### Employee Attendance System-Full Stack Development

[GitHub](#) 

- Built a responsive MERN stack web app with GPS-based **check-in/check-out**, selfie capture, and geofencing.
- Integrated **MySQL** backend with JWT authentication, **leave management**, and **payroll report** generation.
- Designed admin dashboard for **field officer tracking**, **geo-fence alerts**, and real-time **attendance history**.
- Used Google Maps API for **reverse geocoding** and managing multiple dynamic check-in zones.

### Prediction of Diabetic Retinopathy Using Deep Learning

[GitHub](#) 

- Developed an end-to-end system for generating descriptive caption for images.
- Utilized **CNN model** for image feature extraction and caption generation.
- Secured **79%** accuracy on the APTOS-2019 Blindness dataset, setting a benchmark on **3000+ images**.

### Best Gadget in the Market-Web Development

[GitHub](#) 

- Developed a MERN stack website showcasing 500+ gadgets with seamless browsing and purchase features.

- Built a **FastAPI** backend handling **1,000+** requests with secure APIs for **authentication** and payments.

## Technical Skills

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**Languages :** Python, Java

**Development:** JavaScript, ReactJS, Spring Boot, MongoDB,SQL (MERN STACK)

**Data Science:** NumPy, Pandas, Scikit-learn, Matplotlib, Data Analysis





**Cloud Technologies:**Google Cloud, AWS

**Big Data Technologies:** Apache Spark, Apache Kafka, Hadoop

**Tools and Other skills:**GitHub,Git,Postman,VS code

## Certifications

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- Salesforce Certified AI Associate [Link](#) 
- Alteryx Micro-credential Foundation [Link](#) 
- Database Management Systems NPTEL certification [Link](#) 
- Google Cloud Computing Fundamentals Certification [Link](#) 

## Responsibilities/ Extracurricular Activities

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- JPMC CFG'25 Finalist
- GDSC AI/ML Lead.
- National Level HackXcelerate Hackathon pre-finalist.
- Participated in Flipkart Grid 6.0,CBIT COSC,Amazon ML Hackathon '24.