Prakki Gayatri Naga Soujanya

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Education

Chaitanya Bharathi Institute Of Technology   *2022 – 2026*
B.E - Information Technology **CGPA: 8.89/10**   *⦿ Portfolio*

Experience

Machine Learning Intern   *Industrial Internship*
AICTE Ideas Labs   *July 2024 – Sept 2024*

- 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.
- 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   *Remote*
CodeSprint   *Oct 2023 – Dec 2023*

- 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.
- Optimized database management for scalability, supporting **10,000+** products, and implemented a **recommendation system** to enhance user engagement.

Projects

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.

Scholarship Prediction   *GitHub* ↗

- Developed a machine learning model to predict scholarship eligibility, utilizing a **synthetic dataset** with **50,000+** records to simulate real-world scenarios and ensure robust training.
- Achieved **92%** prediction accuracy through advanced **feature engineering** and **model optimization**.

Technical Skills

Languages : Python, Java
Development: JavaScript, ReactJS, Spring Boot, MongoDB,SQL
Data Science: NumPy, Pandas, Scikit-learn, Matplotlib, Data Analysis
Coursework : Data Structures and Algorithms, Object Oriented Programming, Database Management System, Machine Learning, Artificial Intelligence, Cyber Security, Cryptography,Computer Networks, Operating Systems.

Responsibilities/ Extracurricular Activities

- GDSC AI/ML Lead.
- State Level BasketBall Player.
- National Level HackXcelerate Hackathon pre-finalist.
- Participated in Flipkart Grid 6.0,CBIT COSC,Amazon ML Hackathon '24.