

Naga Sai Tarun Ganesh Emadabathuni

 github.com/tarunganesh2004 |  linkedin.com/in/tarunganesh2004 |  enstarunganesh@gmail.com |  +91-8309644254

EDUCATION

Vellore Institute of Technology Amaravathi, India Bachelors of Technology in Computer Science and Engineering	2021 - present GPA: 8.85/10.0
Sri Chaitanya Junior College Lakshmipuram, Guntur, India Intermediate Education	2019 - 2021 Grade: 973/1000

EXPERIENCE

SmartBridge Machine Learning, Externship	2023
<ul style="list-style-type: none">Acquired in-depth knowledge of machine learning and deep learning, including ANN, CNN, and RNN, through self-study and practical projects, applying these techniques to solve real-world problems.Built and optimized machine learning models, using them to analyze various datasets and generate valuable insights.Completed an image captioning project, successfully integrating image recognition models and achieving high accuracy.	
NextGen Cloud Club Member, VIT-AP	2023
<ul style="list-style-type: none">Engaged in web development activities and posted questions on web forums and WhatsApp groups to foster discussion.Contributed to organizing and promoting club events and workshops related to web technologies.Enhanced web development skills through participation in club activities and online interactions.	

PROJECTS

Hand Gesture Recognition VIT-AP	2023 Link
<ul style="list-style-type: none">Developed a Pygame-based application to recognize and predict gestures drawn on a grid, with a custom-built user interface for interaction and visualization.Employed cosine similarity to accurately compare and predict user-drawn gestures against pre-saved templates, enhancing the system's precision in gesture recognition.Added functionality to save, load, and clear gestures, allowing users to manage and test different gestures efficiently within the application.	
Image Caption Generator SmartBridge	2023 Link
<ul style="list-style-type: none">Implemented an image caption generator by combining DenseNet201, CNN, and LSTM to generate descriptive captions for images.Trained the model on the Flickr8k dataset, which consists of 8000 images and corresponding captions, achieving robust generalization.Integrated the trained model into a Flask web application, allowing users to upload images and receive accurate, descriptive captions.	
Task Management App Personal	2024 Link
<ul style="list-style-type: none">Developed a full-stack task management application using React for the frontend, Node.js and Express for the backend, and MySQL for persistent data storage.Created and integrated RESTful API endpoints for managing tasks and users, supporting full CRUD operations between the frontend and backend.Implemented a responsive UI with Bootstrap and handled API requests with Axios to ensure smooth, real-time task management.	

TECHNICAL SKILLS

Programming languages: Java, Python, MySQL, PHP
Web Technologies: HTML, CSS, JavaScript, ReactJS, NodeJS, Express, Flask
ML/AI: Numpy, Pandas, Matplotlib, Tensorflow
Tools: GitHub, Visual Studio Code, Neovim, Eclipse

RELEVANT COURSEWORK

Computer Science: Data Structures and Algorithms, Databases, Machine Learning, Deep Learning, Computer Networks
Mathematics: Discrete Maths, Applied Statistics, Number Theory, Linear Algebra

CERTIFICATIONS & ACHIEVEMENTS

- Completed Google Developers SmartBridge AI-ML Certification - [Link](#)
- Achieved 5-star rating in Python and Java on HackerRank - [Link](#)
- Completed NERD+ (DSA using Java) certification from VIT-AP with strong commitment and excellence - [Link](#)
- Solved 300+ problems on LeetCode and GeeksforGeeks, demonstrating strong coding and algorithmic skills
- Completed a data analytics externship at InTrainTech, gaining hands-on experience in data analysis, visualization, and reporting - [Link](#)