

PAYIDI VENKAT SAINATH

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🌐 Venkat Sainath 🔄 Venkat Sainath

Education

National Institute of Technology, Andhra Pradesh,
Bachelor of Technology in Electrical and Electronics Engineering
CGPA : 7.94

2020 – 2024

Narayana Junior College, Intermediate
MARKS: 972 out of 1000

Sri Chaitanya Techno School, Secondary Education
GPA: 10

Skills

Web Development: JavaScript, React.js, Express.js, Node.js, SQL, Bootstrap, CSS, HTML

Data Science and Analytics: Python, Machine Learning, Deep Learning

CS Fundamentals: Data Structures and Algorithms

Platforms: Postman, Git, TensorFlow, Matlab, Google Colab

Experience

Open-Source Contributor

2024(Current)

Project: Web Dev Tools is a website designed to empower web developers with a wide array of code samples and snippets

Technologies: React.js, SCSS, GitHub API, JSON, Tailwind

- Introduced a web tool that allows developers to share their open-source projects, displaying repository data from GitHub sorted by stars, last update, and language.
- Improved user experience and engagement with the project by 30% based on analytics from GitHub stars and issue reports.
- Introduced dark mode feature to about page.

Visakhapatnam Steel Plant, Intern

06/2022 – 07/2022 | Visakhapatnam, India

- Analyzed *Variable Voltage* and *Variable Frequency Drives* for Electric Overhead Travelling (EOT) cranes.
- Specialized in *DC Drive motors* with extensive practical knowledge.

Projects

Assessment and Comparison of Classical and Machine Learning based Load Forecasting for Smart Grid

Tech used: Machine Learning, Python, NumPy, Pandas, Scikit learn, Matplotlib, TensorFlow, Linear Regression, RFE, ANN, GRU, Exponential Smoothing

- Implemented **Multiple Linear Regression, Exponential Smoothing, Artificial Neural Network, and Gated Recurrent Unit** models for load forecasting across 5 state load dispatch centers.
- Achieved significant performance improvement by implementing ANN and GRU, leading to a reduction in MSE ranging from 99.12% to 99.55% compared to classical Exponential Smoothing and MLR methods.

Flower Classification using TensorFlow

Tech used: Machine Learning, Python, TensorFlow, Keras, Matplotlib, Gradio, CNN

- Developed a **Convolutional Neural Network** based flower classification model using **TensorFlow**, achieving an accuracy of 85.46%.
- Created a user-friendly interface using **Gradio** to allow users to interactively classify flower images using the trained model. Users can upload images or use their webcam for real-time classification.

Face Detection Website

Tech Used: JavaScript, React.js, Express.js, Node.js, PostgreSQL, JSON, REST API, NPM, Bcrypt, Knex, Tachyons, CSS, HTML

- Developed a face detection website using **React.js Node.js, Express.js, JSON, SQL, PostgreSQL, Machine Learning API**. All components are connected using **Knex**, achieving 100% accurate face detection.
- Employed **Bcrypt** for 100% password protection.

Certificates

• NPTEL - Natural Language Processing ☑

• NPTEL- Data Base Management System ☑

• Game Development using Pygame ☑