Nathani Jawahar Sai

Bachelors of Technology – Computer Science
Indian Institute of Technology Tirupati

Professional Goals

I aim to attain an engaging internship position in the field of Machine Learning and Artificial Intelligence. I love to create innovative ML and AI based tools and projects.

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Areas of Interest

- Data Structures and Algorithms
- Machine Learning
- Artificial Intelligence
- Blockchain

Languages Spoken

- English
- Hindi
- Telugu

Achievements

- JEE Advanced – **3575**
- JEE Mains –**3595**

Academic History

Indian Institute of Technology Tirupati
B.Tech | CSE | August 2018 - Present | 7.8/10 GPA

Narayana Junior College
Intermediate | MPC | 2016 - 2018 | 97.7%

Vishwabharati High School
Secondary Education | MPC | 2015 - 2016 | 98%

Technical Proficiencies

Programming Languages

- Python
- C++
- C
- Java
- Javascript
- HTML & CSS
- C sharp
- MySql
- Assembly Language
- AIML

Operating Systems

- MacOS
- Windows
- Ubuntu
- Linux

Software Tools

- Tensorflow
- Keras
- Pytorch
- ReactJs
- Flask
- Unity
- Flutter
- Sklearn
- SQL
- Data Structures
- Algorithms

Software Proficiencies

- Machine Learning
- Xcode
- Visual studio
- Unity

Projects

Teachable Machine
ReactJs | Flask | Machine Learning | Personal Project | Github Repo

An app that helps the users to create and test custom Image classification models and detect objects in Images.
- ReactJs - For building User Interface, managing and navigation of Pages, client services.
- Flask - For managing servers, and to recieve and send http requests with client.
- Machine Learning - For creating Image classification and Object Detection models.

Kisan Seva
ReactJs | NodeJs | Material UI | Software Engineering Course | Github Repo

An app that serves the farmer community the purpose of fetching them right value for there crops. Also educate and provide best practises for free to farmers on all kinds of agricultural aspects.
- ReactJs - For building User Interface, managing and navigation of Pages, client services.
- NextJs - Framework based on react for production and server side rendering
- NodeJs - For managing servers, and to recieve and send http requests with client.
- Material-UI - React component and styling library based on 'material design' by google

Assembly Code Simulator
Python | Tkinter | Computer Organization Course | Github Repo

A Simulator similar to QTspim, to understand and run MIPS Assembly language programs.
- Python - For managing registers and actions when simulating the program.
- Tkinter - Python based framework for building User Interface.

Authenticated Encryption using ASCON.
Verilog | Model-Sim | Digital Systems Course

Encryption of data and text using a key. Developed using verilog and Model-Sim. Used for secure communication. We used Hashing to encrypt the data.

Waste Management Portal
HTML | CSS | Java Script | Django | Ecology Course

A portal to manage waste and bring awareness in the students of our college, about waste management techniques.
- HTML , CSS , Java Script - For building User Interface and managing the actions of User.
- Django - For managing servers and server side rendering.

Projects

Big Little Township
Unity | C sharp | Software Engineering Course | Github Repo

A game developed considering 3 Sustainable development goals – Life on land, Waste Management, Climate Changes. To bring awareness in players about damage caused to land, water, climate due to human actions.
- Unity – For developing Game Interface.
- C sharp – For scripting actions in game.

Other Projects using Machine Learning, Flutter, and Python.
Personal Projects

- Good friday Prices Prediction.
- Lane Detection in Video & Image.
- Next word Prediction.
- Spam detection in emails.
- chatbot.

Relevant Courses

- Data Structures and Algorithms
- Software Engineering
- Compiler Design
- Operating Systems
- Programming Methodology
- Artificial Intelligence
- Machine Learning
- Computer Networks
- Discrete Mathematics for Computer Science

Hobbies and Other Activities

- Solving questions in Hacker Rank , Codechef.
- Participating in Online Hackathons.
- Interested in developing Machine Learning API's.
- Interested in Competitive Programming , solving algorithms.
- Watching Tech and Business News.
- Watching Netflix.
- Playing Video Games.