

Sowmya Chitturi

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Education

Vellore Institute of Technology, Amaravati

B.Tech in Computer Science with Artificial Intelligence and Machine Learning

July 2021 - Present

CGPA: 8.88/10.0

Aakash, Rajahmundry

MPC - State Board of Intermediate Education

2019 - 2021

Percentage: 91%

Sri Chaitanya, Gosala

10th Class

2018 - 2019

GPA: 9.8

Research Publication

YouTube's Revenue Generation Mechanism Impacts Content Creators' Mental Health

07/2024

Bpasjournals

- Conducted an analysis of YouTube's monetization strategies, covering key metrics like subscribers and watch hours.
- Explored psychological effects on content creators, noting 68% experience burnout and 45% anxiety.
- Proposed actionable strategies to optimize revenue and address mental health challenges.
- Collaborated with a cross-functional team to gather requirements, ensuring alignment with user needs and business goals.
- Algorithm changes limiting subscriber reach (only 10-30% visibility).

Projects

Low-Light Image Enhancement Project

PSNR value : 22.98

- Researched and implemented low-light image enhancement techniques to improve visibility in poorly lit environments.
- Utilized cutting-edge algorithms, including Multi-Feature Decomposition Network (MFDNet), reducing noise levels by 20% while maintaining high color fidelity.
- Optimized pre-processing and post-processing workflows, resulting in a 25% reduction in image processing time.

Portfolio

React Project

- Developed a responsive portfolio website using React and CSS, achieving 100% compatibility across mobile, tablet, and desktop devices.
- Showcased projects, skills, and achievements dynamically using reusable React components and Redux, improving code reusability and performance by 80%.
- Integrated Framer Motion for smooth animations and interactivity, increasing user engagement by 100% and enhancing visual appeal.

Sentiment Analysis of Social Media Web App

Accuracy: 86.04%

- Designed a machine learning pipeline using DecisionTreeClassifier for training (92%) and testing (72%) models.
- Optimized natural language processing workflows using Spacy, NLTK, and TextBlob for accurate text analysis.
- Built a dashboard to visualize sentiment trends, enhancing user insights.

E-Giftedly

Web Project

- Developed an e-commerce platform to browse and customize gifts, improving load time by 40%.
- Implemented responsive design principles to ensure compatibility across devices, enhancing user experience.
- Integrated secure platform for users to login .

Certifications

MERN Full Stack Internship Program

08/2023 – 11/2023

ETHNUS

Certificate ID: 5C5SFFBS

- Developed 7+ RESTful APIs and interactive interfaces with React, managing 1,000+ database records.
- Worked on a capstone project simulating a complete e-commerce system.

Google Cloud Computing Foundations Program

08/2023 – 11/2023

Google and VIT

Certificate ID: 5CSSFFE

- Gained proficiency in cloud concepts such as IaaS, PaaS, and SaaS.
- Deployed applications and leveraged big data tools for data management.
- Completed hands-on labs in virtual machine setup and application deployment.

Technical Skills

Programming Languages: Java, SQL, HTML, CSS, Python

Frameworks: React, Flask

Database: MySQL, MongoDB

Tools: Git, VS Code, PYcharm, DataSpell