Adapala Sriharsha Reddy

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SUMMARY

Aspiring Python Full-Stack Developer & Machine Learning Engineer with learning Flask, MongoDB, Cloud Computing, and AI/Deep Learning. Passionate about developing scalable applications, integrating AI models, and deploying solutions efficiently. Ready to contribute my work to the organizations

TECHNICAL SKILLS

- Programming Languages: Python, JavaScript, SQL
- Web Development: Flask, FastAPI, React.js, Next.js, Tailwind CSS ,web3
- Machine Learning & AI: TensorFlow, PyTorch, OpenCV, NLTK, NumPy, Pandas
- Cloud & DevOps: AWS (EC2, S3, Lambda), Docker, GitHub Actions
- Databases: MongoDB, MySQL
- Version Control: Git, GitHub
- Tools & IDEs: PyCharm, VS Code, Jupyter Notebook, Anaconda

ACADEMIC PROJECTS

Graduation major project

Guru Nanak Institution of Technology   **Jan 2025 - Present**

DeepFake Detection using Machine Learning (Python Full-Stack Project)
- Developed a DeepFake Detection System integrating LSTM & ResNext models.
- Built a Flask-based backend API to process user-uploaded videos for deepfake classification.
- Designed a React.js frontend for users to upload media and view detection results.
- Implemented SQLAlchemy for storing user input and detection history.
- Deployed on AWS & Docker for scalable performance.
- Tech Stack: Python, Flask, React.js, SQLAlchemy, TensorFlow, OpenCV, AWS

Diploma major project

TKR College of Engineering and Technology   **Dec 2021 - Mar 2022**

Canteen Automation System using NLTK (Python Full-Stack Web Application)
- Developed a canteen automation system for students to order food online without visiting the counter.
- Integrated an admin panel to process orders efficiently and track real-time order status.
- Implemented a review & rating system for food items, allowing students to give feedback.
- Used NLTK and machine learning to analyze customer reviews and determine sentiment scores.
- Stored order details, user data, and sentiment scores in MongoDB for seamless management.
- Tech Stack: Python, Flask, NLTK, Machine Learning, MongoDB, HTML, CSS, JavaScript

EDUCATION

Guru Nanak Institution of Technology	**GNIT,HYD,TS**
Bachelor's in Computer Science and Engineering	Nov 2022 - Aug 2025
CGPA : 6.8	
TKR College of Engineering and Technology	**TKRCET,HYD,TS**
Diploma in Computer Engineering	Oct 2019 - Apr -2022
CGPA : 6.0	

CERTIFICATIONS & COURSES

Certified Python Programmer

The Institution of Electronics and Telecommunication Engineers

Certified Full Stack Web Dev & DevOps

100x dev by Harkirat Singh

100x Engineer community

Certified UIUX Designer

Tutedude learning

Other Courses

- Google Generative AI Course – Google Learning
- Machine Learning Crash Course – Google
- Cloud Computing Fundamentals – AWS Academy

SOFT SKILLS

- Problem-solving & Critical Thinking
- Time Management & Productivity
- Adaptability & Continuous Learning
- Team Collaboration & Communication

WORKSHOPS & HACKATHONS

- SWECHA Workshop on Open Source Development – Learned about FOSS (Free and Open Source Software) contributions and development practices.
- SWECHA Workshop on AI & Automation – Explored AI-driven automation and its applications in real-world scenarios.
- AI Transcribe Workshop (Swecha.org) – September 2024
  - Developed and implemented a streamlined process for Telugu audio to text automation.
  - Discovered that Telugu language variables are stored in binary values for efficient processing.
  - Implemented a standardized data storage model for improved visibility and decision-making.
  - Volunteered in multiple AI & open-source initiatives.
- Summer of AI Intern (Swecha.org) – May 2024 - June 2024
  - Developed an Automatic Speech Recognition & Generator using Python, JupyterLab, and PyTorch.
  - Built a standardized data collection system for Telugu language, traditions, local history, and agriculture.
  - Gained hands-on experience with speech processing tools and automation technologies.

LANGUAGES

- English
- Telugu (Native)
- Hindi
- Japanese

REFERENCES

MY Portfolio web site

Google Cloud Skill Boost
https://www.cloudskillsboost.google/public_profiles/c499f775-1057-4183-8cfb-917cade2f1ae