

Dwarampudi Karthik Sainadh Reddy

Roll No.: 124157018

Bachelor of Technology

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EDUCATION

- **Sastra University, Thanjavur** 2020-24
Bachelor of Technology in Computer Science and Engineering(Cyber Security and Blockchain technology) CGPA: 9.36
- **Tirumala Junior college, Rajahmundry - Senior Secondary** 2018-20
Mathematics, Physics, Chemistry - Board of Intermediate Education, Andhra pradesh Percentage: 98.1
- **ZPP High School, Ubalanka** 2018
Board of Secondary Education, Andhra pradesh CGPA: 9.8

PERSONAL PROJECTS

- **Blockchain Offline Payments**
A blockchain based android app to perform offline payments.
 - Developed a resilient **JavascriptInterfaceBridge** linking Android app with Django, cutting response time 40%, elevating real-time data sync, enriching user interaction.
 - Launched Python-based blockchain, smart contract on AWS EC2. Enabled UPI payments via Deeplinks.
 - Technology Used: Java, Android Studio, HTML, CSS, Javascript, Django, Blockchain.
- **Crop Suggestions, Django APP**
A realtime website to suggest crops across India based on soil nutrients and weather forecast data
 - Employed **Weather API** for accurate forecasts..
 - Achieved 92% model accuracy with RandomForest Classifier, integrated into Django. Deployed on AWS.
 - Technology Used: HTML, CSS, JavaScript, Weather API, Django.
- **Berryminator**
*Built an omnidirectional Bot in a **simulation** arena to cultivate berries.*
 - Achieved an impressive 85% accuracy in berry detection and precise location identification through the implementation of an advanced Python script for Image Processing.
 - Seamlessly integrated a remote API, resulting in a 30% improvement in simulation execution efficiency within the CoppeliaSim environment.
 - Technology Used : Python, Image Processing, Coppelasim and Coppelasim Remote API, SolidWorks.

EXPERIENCE

- **Optum Technology Development Intern - Generative AI** Jun - Aug 2023
An LLM Based code convertor
 - Engineered tool converting SAS scripts to Python, boosting efficiency by 40%.
 - Pioneered self-repair code module, utilizing bandit for security analysis, and deployed on Azure platform.
- **Eyantra, Full StackWeb Development Intern** Jun 2022 - Aug 2023
A gaming website to teach python to school kids
 - Enhanced code execution speed by integrating Brython, a browser-based Python interpreter, resulting in a 25% optimization.
 - Played a pivotal role in the project, conceptualizing 70% of the game's story, mechanics, and levels. Additionally, developed interactive tutorial slides using Django for robust backend support.

TECHNICAL SKILLS AND INTERESTS

Languages: C/C++, Python, Javascript, HTML+CSS, Lua

Libraries : opencv, scikit-learn, langchain, openai

Version Control: Git, Github

Frameworks: BrythonJS, ReactJs

Relevant Coursework: Machine Learning For Cyber Security, Operating Systems, Object Oriented Programming, Database Management System, Computer networks, Blockchain technology, Information hiding and retrieval, Basics of cryptography and cryptanalysis.

Areas of Interest: Web Design and Development, Defensive programming, Artificial Intelligence.

Soft Skills: Presentation, Effective Communicator, Quick Learner, Adaptability, Creativity, Team Player, Positive Attitude, Leadership.

POSITIONS OF RESPONSIBILITY & ACHIEVEMENTS

- **Robotics Club Sastra (RCS)** core team member- Sastra, Thanjavur Mar 2021 - now
 - Conducted workshops and tutored in Image Processing and Machine Learning.
- Scored 2nd Rank in overall School of Computing in college till 7th Semester with 9.36 GPA.