

VALLURI KOMAL KRISHNA

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KEY SKILLS

Python, Java, Full Stack Web Development (MERN Stack), Flutter Development, Software Development, AWS, Google Cloud

EDUCATION

Anurag University

B.Tech. - Mechanical Engineering | CGPA: 7.05 / 10

2020 - 2024

Gayatri Academy Junior Collage, Hyderabad

12th | TSBIE | Percentage: 84 / 100

2020

Kendriya Vidyalaya

10th | CBSE | Percentage: 56.70 / 100

2018

INTERNSHIP

Skill Vertex | E-Learning / Edtech

Web Developer

05 Apr, 2022 - 05 Jun, 2022

PROJECTS

Integrating Machine Learning Algorithms for Predictive Analytics and Precision Optimization in Thread Cutting operation

23 Oct, 2023 - 28 Feb, 2024

Key Skills: Python, Machine Learning

- To Develop a Robust Machine Learning Model on CNC Lathe Machine for thread cutting operation.
- To Integrate Real-Time Data with Machine Learning Sources.
- To Optimize Precision in Lathe Thread Cutting Operation.
- To Demonstrate Practical Application and Integration with Machine Learning Model.

Design and Analysis of a Bio-Resorbable AZ31Mg Alloy implant for Orthopaedic Interface

19 Jun, 2023 - 17 Nov, 2023

Key Skills: SolidWorks, ANSYS

This project centres on the design and analysis of a bio-resorbable AZ31 Mg alloy implant of Orthopaedic. The primary objective is to create a biocompatible solution tailored for applications in the hip-thigh joint interface. The screw is engineered to gradually degrade, promoting tissue growth, without leaving any toxic byproducts during degradation or any residue after complete regeneration of the target anatomical site. To address the delicate balance between mechanical strength and biodegradability, this project explores various strategies aimed at enhancing corrosion resistance. These strategies encompass alloying, surface treatments, and the application of biocompatible coatings. Through a comprehensive design and analysis process, the goal is to develop a dependable and efficient bio-resorbable screw that can be successfully employed in biomedical contexts.

NLP- Speech Emotion Detection

Key Skills: Python, HTML, CSS, Javascript, Algorithms

Speech Emotion Detection (SED) identifies emotions in audio data, like text sentiment analysis but for spoken words. It's a classification challenge, determining emotion labels for audio inputs. This task is complex due to the nuanced nature of human emotions. SED finds applications in customer service, mental health monitoring, and human-computer interaction. Building effective SED models requires diverse training data and considers features like tone and speech patterns. Ethical concerns, such as privacy and user consent, are vital. As SED advances, it promises improved human-machine interaction and understanding of emotions in various contexts.

CERTIFICATIONS

AWS Academy Graduate - AWS Academy Data Engineering

AWS Academy Graduate - AWS Academy Cloud Foundations

AWS Academy Graduate - AWS Academy Cloud Architecting

CO-CURRICULAR ACTIVITIES

DAKSHA 2k23 - DEPARTMENT HEAD "Served as the Department Head(Mechanical Department) and been as Executive Board Member for Daksha 2k23 -a techno cultural fest Organized in our University (March-9 th and 10 th 2023)

EXTRA CURRICULAR ACTIVITIES

- ANURAG UNIVERSITY IUCEE STUDENT CHAPTER(AUISC) - Served as Technical and Organizing Lead in The IUCEE Student Chapter conducts various Events and takes Sustainable Initiations to promote innovation among the students to envision a better world.
- TEDxAnuragU - "Served as the Technical team lead for the TEDx event" Organized in our University (March 4 th 2023) demonstrates my Organizational Skills and Technical Skills.

PERSONAL INTERESTS / HOBBIES

- Public Speaking
- Debates
- Clone Websites
- Swimming
- Cooking

WEB LINKS

Github - <https://github.com/vallurikomalkrishna>

PERSONAL DETAILS

Gender: Male

Current Address: Sheffield 3 : Hoyle St, Sheffield, S3 7LG, United Kingdom

Email: vallurikomalkrishna57@gmail.com

Date of Birth: 14 Feb, 2003

Known Languages: Telugu, Hindi, English

Phone Numbers: +44 790032347_

DECLARATION

I solemnly declare that all the above information is correct to the best of my knowledge and brief.

Date:

Place: Sheffield

VALLURI KOMAL KRISHNA