Akhil Malkapuram

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EDUCATION

CVR College Of Engineering, Hyderabad (Jun 2019 - May 2023)
B.Tech, Mechanical Engineering / 8.29 (CGPA)
Courses: Javascript programming language, Python programming language, Project Management.

Narayana Junior College, Hyderabad (Jun 2017 - Mar 2019)
Intermediate,MPC | 93.5%

Shantiniketan Talent School, Hyderabad (Jun 2016 - Mar 2017)
10th class | 8.7(CGPA)

SKILLS & CERTIFICATION

Tools/Languages: Javascript, Python, C Language, HTML, CSS, Git, SQL, MS Office.
Libraries/Frameworks: React.Js, Bootstrap, Sass, Numpy, Pandas, jQuery, Seaborn, Selenium, BeautifulSoup.
Soft Skills: Teamwork, Adaptability, Problem-solving, Time management.
Online Courses: Great Learning: Python fundamental for beginners, Forage: Goldman Sachs virtual software engineering program, Nxtwave: Frontend Development course.
Software: AutoCAD, Creo, Catia, Ansys Workbench, MYSQL, Slicer 3D.

PROJECTS

Responsive E-commerce website design (view)
- Responsive Shoe Ecommerce Website Design Using HTML CSS & JavaScript.
- Developed first with the Mobile First methodology, then for desktop.
- Compatible with all mobile devices and with a beautiful and pleasant user interface.

Web scraping the YouTube trending live from scratch with Selenium and AWS (view)
- Scraping top 10 trending videos on YouTube using selenium.
- Setting up a recurring job on AWS Lambda to scrape every 30 minutes.
- In the end, the results are as a CSV attachment via email or to a spreadsheet.

React Spotify clone (view)
- Developed a Spotify clone app using React, Axios, and the Spotify API, enabling users to authenticate, the browser with play, pause, and skip functionalities.
- Implemented a user-friendly search feature to allow users to discover playlists, albums, and tracks by integrating the Spotify API's search endpoint.

Fabrication of Aluminium metal matrix composites
- An AMMC has an aluminum metal matrix and Ti, Mg, and Zn metals as reinforcements.
- The preparation of AMMC is done by the stir casting method as it is economical and relatively cheaper than other preparation techniques.
- Use for aerospace, automobile, and military defense purposes.

Modeling and Analysis of Helical Gear
- Modeling of helical gear was done in ptc creo and Analysis was done in Ansys workbench
- Investigation of static analysis, a high-speed helical gear is analyzed by fem package ANSYS.
- Structure analysis, Model analysis, load, and total deformation were done in the Ansys workbench.