M S HARSHITH REDDY

Hyderabad, India

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Education

Keshav Memorial Institute of Technology   **October 2021 - June 2025**
Bachelor of Technology in Computer Science (CGPA - 8.69/10)   Hyderabad, India

Relevant Coursework: Data Structures, Database Management Systems, Mathematical Foundations of Computer Science, Machine Learning, Exploratory DataAnalysis, Advanced Calculus and Transforms, Linear Algebra and Differential Equations, Parallel Programming, Deep Learning for Vision Systems, Operating Systems, Design and Analysis of Algorithms, Web Technology, Statistical Methods for Computer Science

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Technical Skills

Languages: C, C++, Python, Java, HTML/CSS, JavaScript, Blueprint
Technologies/Frameworks: ReactJS, ExpressJS, NodeJS, TailwindCSS, Unreal Engine, Unity
Databases: MySQL, MongoDB, PineCone (VectorDB)
Tools: VS Code, Jupyter Notebook, IntelliJ IDE, Android Studio, Git, Blender, UnityHub, Unreal Engine Editor, Docker, Kubernetes
Libraries: Seaborn, NumPy, Matplotlib, Pandas, SciPy, Scikit-learn, Mplsoccer, Statsbombpy, Streamlit, Transformers
Other Skills: NLP, Neural Networks, BERT.

Experience

Coding - Leetcode question tally - 600 questions (380 medium questions).

Projects

- **AR Solar System and Interactive Hospital Environment Project - Unreal Engine, Unity, Blender, Blueprint, C#, FBX/OBJ 3D images, Android Studio:** This project involves creating a miniature model of the solar system in augmented reality and an interactive hospital virtual environment. Utilizing Unreal Engine and Unity, Blender for 3D modeling, Blueprint and C# for scripting, and Android Studio for deployment, we aim to develop immersive AR and VR applications. The solar system model will feature detailed 3D textures and animations, while the hospital environment will provide interactive elements and realistic 3D models.
- **Sound of AI [Android - Flutter, MobileNetv2 and Resnet152v2, AWS EC2 Instance]** • Developed an Android Flutter app employing MobileNetV2 and ResNet152V2 DL/ML algorithms, FlaskAPI, and Firebase, detecting abnormal heart sounds using the Pascal Heart Sounds Dataset with an accuracy of 91 and 93. • Optimized scalability by deploying FlaskAPI on an EC2 instance, enhancing performance and accessibility.
- **Football Visualisation Webapp [HTML/CSS, JavaScript, Python, Standard Python Libraries] -** Creating a football visualization web app combining front-end technologies like HTML/CSS and JavaScript with back-end technologies like Python, utilizing libraries such as Mplsoccer for visualizations and Statsbombpy for football data retrieval.
- **Fine-tuning DNABERT 2 for Eukaryotic Promoter Detection -** Successfully fine-tuned DNABERT 2 using data from the Eukaryotic Promoter Database (EPD) to enhance promoter prediction accuracy in human DNA sequences. Leveraging pre-trained weights, the model demonstrated improved precision in identifying promoter regions. The Streamlit frontend provided an intuitive interface for users to input DNA sequences and visualize predictions. This project advances bioinformatics research and underscores a commitment to utilizing cutting-edge technologies for genomics analysis.
- **Product Management Restful API -** Developed a comprehensive RESTful API for managing products using Node.js, Express.js, and MongoDB. This API facilitates various CRUD operations on product data and includes authentication and authorization mechanisms using JWT (JSON Web Tokens). Postman was used extensively as a simulation environment for testing and validating the API endpoints.

Achievements

- My project implementation was judged to be the best in my category in Kmit's Project School in the fourth semester.
- Published an article on medium.com regarding the Android Setup for Augmented Reality in Unreal Engine 5.
- Qualified for the hackathon, Kavach, by developing an Indigenous Crypto Currency Investigation Tool.
- **NPTEL Certification** - Elite Silver - Python for Data Science issued by IIT Madras
- **Coursera Certification** - Google Foundation of Data Science

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Extracurricular Activities

- Member of KMIT's Technical Club, Recurse and an contributor to the college magazine – KMITRA
- Member of Kreeda (KMIT's Sports Club) and Member of KMIT's Football Team.

Google

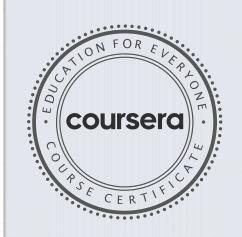**COURSE CERTIFICATE**

Mar 31, 2024

Coursera Learner

has successfully completed

Foundations: Data, Data, Everywhere

an online non-credit course authorized by Google and offered through Coursera

Amanda Brophy

Amanda Brophy
Global Director of Google Career Certificates

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