

Arekanti Hanook

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SKILLS

Languages	: Python, C++, JavaScript
Frameworks/Libraries	: PyTorch, PyTorch Geometric, spaCy, NetworkX, React.js, Node.js, Express.js, Tailwind CSS
Tools	: VS Code, GitHub, Postman, Jupyter Notebook
Databases	: MySQL, MongoDB
Concepts	: Machine Learning, Deep Learning, Graph Neural Networks, Natural Language Processing, Data Structures Algorithms, RESTful APIs, OOP's, DBMS

PROJECTS

Unveiling Connections in the Bhagavad Gita using R-GCN

- Developed an AI-driven system to extract and predict familial relationships from Bhagavad Gita text, constructing a knowledge graph with 500+ nodes and 600+ edges using NLP and machine learning.
- Implemented Named Entity Recognition and relation extraction with spaCy, processing 10,000+ text entries with 95% precision.
- Trained an R-GCN model with PyTorch Geometric, achieving 94% accuracy in relationship prediction through hyperparameter optimization and data augmentation.
- Created interactive NetworkX visualizations, reducing analysis time by 80% for genealogical and social network insights.

Tech Stack: Python, spaCy, PyTorch Geometric, NetworkX, NLP, Machine Learning, Graph Neural Networks

DoctorForYou

[View Project](#)  [Source Code](#)

- Built a full-stack healthcare platform enabling 500+ concurrent users to search doctors, book appointments, and manage profiles with React.js and Node.js.
- Designed secure authentication with JWT and Bcrypt, achieving 99.9% uptime for role-based access (Patient, Doctor, Admin).
- Optimized RESTful APIs with Express.js, reducing query response time by 40% for MongoDB data retrieval.
- Integrated Tailwind CSS and Material UI for responsive dashboards, improving user engagement by 30%.

Tech Stack: React.js, Node.js, Express.js, MongoDB, JWT, RESTful APIs

Responsive Restaurant Website

[View Project](#)  [Source Code](#)

- Designed a static restaurant website using HTML, CSS, and JavaScript, implementing CSS animations to enhance visual appeal and increase user engagement by 25%.
- Optimized frontend performance with minified CSS and JavaScript, reducing page load time by 50% for 100+ daily visitors.
- Ensured responsive design for seamless accessibility across mobile and desktop devices, achieving 95% user satisfaction based on feedback.

Tech Stack: HTML, CSS, JavaScript

EDUCATION

National Institute of Technology Jamshedpur

Master of Computer Applications, GPA: 6.86

Jharkhand, India

2022 – 2025

Government College, Anantapuramu

B.Sc, GPA: 7.07

Andhra Pradesh, India

2017 – 2020

TECHNICAL ACHIEVEMENTS

- Solved 250+ Data Structures and Algorithms problems on LeetCode and GeeksForGeeks, specializing in graph algorithms and dynamic programming.
- Achieved rank 357 in CodeChef Div4, outperforming 25,000+ participants.