

# DINESH VADDIREDDY

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## SUMMARY

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Recent Computer Science Graduate proficient in C language, Java, Python, SQL, HTML, CSS and Mongo DB with practical experience from coursework and internships. Seeking to apply strong coding and problem-solving skills to innovative teams, eager to gain practical insights and enhance abilities through mentorship, while contributing to impactful projects in software development.

## EDUCATION

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### Anantha Lakshmi Institute of Technology and Sciences

Bachelor of Technology: Computer Science and Engineering GPA: 8.0/10

Ananthapuramu, AP

Sep 2022 - Jul 2026

## PROJECTS

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### Movie Recommendation Bot

Anantha Lakshmi Institute of Technology and Sciences

Ananthapuramu, AP,

Aug – Dec

- Designed and developed an AI-powered movie recommendation chatbot using Python, LangChain, OpenAI GPT-3.5, and Neo4j to provide personalized responses based on hybrid vector and graph retrieval.
- Implemented Retrieval-Augmented Generation (RAG) with token-based chunking and OpenAI embeddings to store and retrieve over 100 movie records enriched from TMDb and Wikipedia sources.
- Built a dynamic recommendation system combining static data and live TMDb API queries, enabling multilingual, actor-based, genre-based, and language-specific movie searches.
- Created a conversational interface using Streamlit with chat memory for context-aware queries and response continuity across user interactions.
- Engineered real-time search capabilities through TMDb's discover endpoint with fallback logic to Wikipedia summaries for non-indexed or regional titles (e.g., Telugu action movies).
- Optimized query performance by fine-tuning chunk overlap, indexing movie embeddings in Neo4j, and integrating custom retrievers to handle fuzzy queries and improve response quality.

### Power Theft Detection Using Deep Learning

Anantha Lakshmi Institute of Technology and Sciences

Ananthapuramu, AP

- Developed a novel electricity theft detection model combining Wide Convolutional Neural Network (Wide CNN) and Deep Convolutional Neural Network (Deep CNN) architectures.
- Processed large-scale smart grid datasets to extract both periodic and non-periodic consumption patterns for anomaly detection.
- Focused on 1D energy usage analysis and behavioural pattern modelling to distinguish legitimate vs. fraudulent electricity consumption.
- Integrated wide and deep learning strategies to improve feature extraction, memorization of known patterns, and generalization to unseen theft behaviours.

- Achieved significantly higher detection accuracy and robustness compared to traditional methods through extensive real-world dataset evaluation.
- Implemented advanced machine learning and data analytics to enhance the integrity and efficiency of modern smart grid systems.

### Virtual Personal Assistant

Ananthapuramu, AP

Anantha Lakshmi Institute of Technology and Sciences

Feb 2023 – May 2023

- Developed a virtual assistant application that provides information and assists users through text or voice inputs.
- Integrated natural language processing to enable the assistant to understand and respond to user queries efficiently.
- Focused on user-friendly design, allowing quick access to information with minimal interaction time.
- The system is capable of handling various types of queries and providing fast, accurate responses.
- Technologies Used include Python for the back end and HTML for the front end.

## INTERNSHIP

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### FULL STACK DEVELOPMENT

International Institute of Digital Technologies, Tirupati, Andhra Pradesh

- Gained hands-on experience in full-stack development using HTML, CSS, and JavaScript. Successfully implemented responsive web designs and dynamic functionalities.
- Developed backend applications using Python and Django. Created RESTful APIs for data handling and management, enhancing understanding of server-side logic.
- Enhanced project management skills through the design and implementation of complete applications. Documented development processes and created comprehensive reports for each project.

## CERTIFICATIONS

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Generative AI – GUVI Geek Networks

(Sep 2025)

Cloud Computing – NPTEL

Jul 2025 – Oct 2024

MongoDB for Developers : Beginner to Advanced

Mar 2025 – June 2024

## SKILLS

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**Programming Languages:** Python, Java, C, JavaScript

**Web Technologies:** HTML, CSS

**IDEs:** VS Code, Eclipse.