

Ganesh Kumar Tirunalla

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Master of Computer Applications

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🔗 GitHub Profile

🌐 LinkedIn Profile

🌐 Portfolio Website

EDUCATION

•Master of Computer Applications(Computer Science)

2023-25

St. Ann's College of Engineering & Technology ,Chirala

CGPA: 7.9

PERSONAL PROJECTS

•Cross-Attention Transformers for Multimodal Emotion Understanding in Human-Robot Interaction

Developed a deep learning model to recognize human emotions from text, speech, and facial expressions.

- Used CNNs for image/audio processing and BERT for text analysis, integrating Cross-Attention Transformers for better accuracy.
- Trained on CMU-MOSEI and MELD datasets, achieving 88.4% accuracy in emotion classification.
- Technology Used: Python, TensorFlow, PyTorch,Hugging Face,AI assistants and robotics.

•Log Classification System using Hybrid Classification Approach

Developed a hybrid log classification system combining BERT, Logistic Regression, Regex, and LLM, improving classification accuracy.

- Deployed a FastAPI server to process log data via RESTful APIs, enabling seamless integration with existing systems.
- Improved log classification accuracy by 40% compared to rule-based systems and reduced operational costs by 30
- Technology Used: Python, FastAPI, Sentence Transformers, scikit-learn, and LLMs for efficient log analysis and classification.

•Flask-based Notes Application

Developed a web-based notes application using Flask, HTML, CSS, Python, and Jinja, enabling users to create, edit, and manage notes

- Implemented user authentication and database integration for secure and efficient storage of notes
- Technology Used : Flask,HTML,CSS,Python,SQLAlchemy and Jinja .

EXPERIENCE

•Machine Learning Internship

Dec 2024

Datavalley

Online

- Worked on machine learning models, including data cleaning, training, and evaluation.
- Used Python, Scikit-learn, and TensorFlow/PyTorch to build and test ML models.
- Improved model accuracy by tuning parameters and selecting the best algorithms.
- Helped deploy ML models using Flask/FastAPI for real-time predictions.

•Java Development Intern

May 2024 - July 2024

AICTE-Next24Tech

Online

- Worked with Spring ,JDBC and SQL to build and manage backend systems
- Fixed bugs and improved application performance for better efficiency.
- Collaborated with a team to develop and test new features.

TECHNICAL SKILLS AND INTERESTS

Languages: Java, Python, HTML+CSS,Flask.

Libraries : Numpy,Pandas,Matplotlib,Seaborn.

Web Dev Tools: VScode, Git, GitHub,

Cloud/Databases:MongoDB, Relational Database(mysql),AWS.

Relevant Coursework: Data Structures & Algorithms, Operating Systems, Object Oriented Programming, Database Management System, Software Engineering.

Areas of Interest: Web Design and Development, Cloud Security.

Soft Skills: Problem Solving, Self-learning, Presentation, Adaptability, Communication & Teamwork, Leadership & Initiative.

CERTIFICATES

•Machine Learning Specialization- Coursera (By Andrew Ng)

•Cloud Computing-NPTEL