



# Muddulur Chetana

B.E. in CSE @ JSSATE, Bangalore, IN

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## EDUCATION

Degree/Certificate	Institute/Board	CGPA	Year
B.E. (CSE)	JSS Academy of Technical Education, Bengaluru	9.11	Dec 2022 - Present
Intermediate	Sri Chaitanya Jr College, Hyderabad / State Board	9.96	June 2020 - June 2022
Secondary	Indian Public School, Tirupati / State Board	10.0	Mar 2019 - Mar 2020

## TECHNICAL SKILLS

- **Programming:** C, C++, Python, Java
- **Databases:** SQL, PostgreSQL, NoSQL
- **Data Visualization:** Tableau, Power BI
- **Web Dev:** HTML, CSS, JavaScript, React, Node.js
- **Cloud:** Google Cloud Platform, AWS
- **Misc:** MS Office Suite, Google Sheets, GitHub, Git

## EXPERIENCE

### • Elevate Labs

*Data Analytics Intern*

*Sep 2025 - Nov 2025*

- Worked on real-world data analytics projects applying Python, Pandas, and Scikit-learn.
- Built a Movie Success Prediction and Sentiment Analysis model using NLP and ML techniques.
- Conducted data preprocessing, exploratory analysis, and model evaluation to extract insights and improve predictive accuracy.

### • Sasken Technologies Limited

*Gen AI - Python Intern*

*Jun 2025 - Aug 2025*

- Completed a project-based internship focused on Gen AI and Python, gaining hands-on industry exposure.
- Collaborated in a 7-member team to build "Smart Part Finder", a website for natural-language trailer parts search.
- Applied web scraping, semantic search, and conversational AI techniques using BeautifulSoup, Selenium, SentenceTransformers, ChromaDB, and LLaMA 3).
- Enhanced skills in NLP, data engineering, and end-to-end AI application development.

### • InternPe

*AI/ML Intern*

*Feb 2025 - Mar 2025*

- Had a practical experience in designing and testing machine learning models on real-world datasets.
- Improved on in-theory concepts of AI/ML core principles such as data preprocessing, model training, and performance optimization through Python and Scikit-learn.

## PROJECTS

### • Faux Hate Speech Detection (Ongoing)

*Feb 2025 - Present*

*A project to improve content moderation through the detection of faux hate speech in entertainment media*

- The basic objective is to detect and analyze which patterns mimic hateful discourse, such as faux hate towards others, using a well-structured dataset and advanced NLP techniques.
- Involved sentiment analysis, linguistic modelling, and deep learning such that it optimizes the understanding of contexts in which detection works.
- **Tools & technologies:** Python, Pandas, Scikit-learn, NLTK, SpaCy, Matplotlib, Seaborn, SQLite, WordCloud

### • OrgBrain - Knowledge Based Agent

*Nov 2025 - Dec 2025*

*Built an AI agent that ingests documents and supports natural-language querying with retrieval.*

- Implemented a RAG pipeline using LlamaIndex + Groq (LLaMA 3.3) for fast, citation-grounded answers.
- Added multi-mode chat (HR, Ops, Support) and automated document insights (summaries, key points).
- Designed a streamlined Streamlit UI with session-based chat history and adaptive context handling.
- **Tools & Technologies:** Python, Streamlit, LlamaIndex, Groq, ChromaDB, pypdf, Git, GitHub.

### • Clinic Front Desk System

*Oct 2025 - Nov 2025*

*Developed a clinic front-desk system to manage patients, appointments, schedules, and queue operations.*

- Built a responsive React + TypeScript interface using ShadCN UI and custom context-based state management.
- Integrated Supabase for authentication, database operations, and serverless Edge Functions to support secure clinic workflows.
- **Tools & Technologies:** React, TypeScript, Vite, Supabase (Auth, Database, Edge Functions), ShadCN UI, Git, GitHub

- Movie Success Prediction and Sentiment Study** Sep 2025 - Oct 2025  
*Developed a data-driven model to predict movie box-office revenue using metadata and sentiment analysis.*
  - Utilized TMDB and IMDB datasets for data processing and feature engineering.
  - Applied VADER sentiment analysis and trained regression models (Linear, Random Forest, XGBoost) for predictive insights.
  - Designed Power BI dashboards to visualize sentiment trends, genre patterns, and revenue predictions.
  - Tools & Technologies:** Python (pandas, numpy, sklearn, xgboost, vaderSentiment, matplotlib, seaborn), Google Colab, Power BI, Excel
- Smart Part Finder: Your Trailer's Best Friend** Jun 2025 - Aug 2025  
*Streamlit-based RAG system for natural-language trailer parts search across multiple sources.*
  - Built automated web-scraping pipelines (BeautifulSoup, Requests, Selenium) to gather, clean, and normalize trailer parts data from diverse supplier platforms.
  - Created vector embeddings with sentence-transformers and used ChromaDB for semantic, context-aware retrieval.
  - Developed a LLaMA 3-powered conversational interface (Transformers) integrated into a complete RAG pipeline, enabling intuitive search through natural-language queries.
  - Tools & technologies:** Python, Streamlit, BeautifulSoup, Requests, Selenium, Pandas, Sentence-Transformers, ChromaDB, Semantic Search, RAG Architecture, LLaMA 3, Hugging Face Transformers.
- Meme Matching Game on AWS** Apr 2025 - May 2025  
*A web-based game hosted using AWS services with CI/CD integration for automated deployment.*
  - Developed an interactive meme matching game using HTML, CSS, and JavaScript.
  - Configured AWS S3 for static hosting and integrated GitHub for AWS CodePipeline for CI/CD.
  - Tools & Technologies:** HTML, CSS, JavaScript, GitHub, AWS Cloud (S3, CodePipeline, IAM)
- Crop Prediction Using ML** Feb 2025 - Mar 2025  
*A project predicting crop yields using machine learning and environmental factors.*
  - Developed a model analyzing historical data to recommend optimal crops.
  - Implemented data preprocessing and model evaluation for accuracy.
  - Tools & Technologies:** Python, Scikit-learn, Pandas, NumPy, Matplotlib, Jupyter Notebook, PyCharm
- CourseHunt | Hunt, Learn & Conquer** Sep 2024 - Dec 2024  
*A space on personalized learning and job recommendation paths about the user's skills and interests.*
  - Development of a totally integrated cross-database site that provides a personalized experience for users in recommending career paths according to a step-by-step roadmap.
  - All components of dynamic content rendering and UI have been integrated to provide seamless interfacing for the user.
  - Tools & technologies:** Python, JavaScript, HTML, CSS, PHP, MySQL

## KEY COURSES TAKEN

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- Data Structures and Algorithms, Database Management Systems, Operating Systems, Computer Networks, Software Engineering, Object Oriented Programming, Web Technologies, Machine Learning, Artificial Intelligence, Analysis & Design of Algorithms, Cloud Computing, Parallel Computing, Cryptography & Network Security, Big Data Analytics

## CERTIFICATIONS

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- Strategy Formulation and Data Visualization by Indian Institute of Technology, Madras
- Machine Learning Specialization by Stanford & DeepLearning.AI (Coursera)
- Applying Lean, DevOps, and Agile to Your IT Organization, (LinkedIn Learning)
- Generative AI Fundamentals (Udemy)

## CO-CURRICULAR ACTIVITIES

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- Participated in MeriLiFE: Massive Tree Plantation Drive by AICTE.
- Raised awareness about waste management in a school in RR Nagar, Bengaluru, as a part of NSS.
- Participated in Anveshana 2025 @ RNSIT, Bengaluru, gaining valuable insights from diverse projects.
- Completed Amazon ML Summer School (2025); competitively selected, trained on ML and AI methods.
- Volunteered in:
  - Be Your Own Boss program – handled registrations & feedback for successful event execution.
  - Learn 2 Learn program – taught computer literacy and science to government high school students.
  - A campaign to strengthen the learning atmosphere of a government school.