

HEMANTH RAJ M V

Bengaluru, Karnataka

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Education

BMS College of Engineering, Bengaluru

October 2023 - Present

B.E in Computer Science (Data Science) Engineering, **CGPA: 8.15**

Relevant Coursework

★ Machine Learning ★ Data Mining and Predictive Analysis ★ Data Visualization
★ Data Structures and Algorithms (Intermediate level)

Technical Skills

Programming Languages:

★ C ★ Java ★ SQL ★ Python

Data Visualization:

★ Power BI ★ Matplotlib ★ Seaborn ★ Tableau

Backend & Systems:

★ FastAPI ★ REST APIs ★ Docker

Machine Learning and AI:

★ Scikit-learn ★ NLTK ★ TensorFlow ★ LangFlow ★ RAG Pipelines

Collaboration and Environment:

★ Git ★ GitHub ★ Jupyter Notebook

Projects

YouTube Data Analytics | PySpark, Streamlit, Pandas, Plotly, Big Data

- Built a Big Data analytics dashboard analyzing YouTube trending patterns across 113 countries using Apache Spark for 5.5GB+ dataset processing.
- Implemented interactive filtering, engagement metrics analysis, and geospatial visualization with auto-generated insights.

Document Q&A System | FastAPI, LangFlow, OpenRouter, PyMuPDF, RAG

- Built a RAG-powered document question-answering system using LangFlow for pipeline orchestration and OpenRouter as a multi-model gateway for LLM capabilities.
- Implemented PDF upload, text extraction, and natural language Q&A with context-aware responses and session-based conversation memory.

AV Sync Detection | Python, Deep Learning, SyncNet, Computer Vision

- Developed a deep learning solution for AMAGI to detect audio-visual synchronization issues using SyncNet FCN architecture.
- Analyzed lip movements and audio signals to identify dubbing mismatches with frame-by-frame confidence scoring.

Leadership / Extracurricular

Treasurer, DSync Club

April 2025 – Present

- Identified and approached prospective sponsors; designed proposals, negotiated and secured support.
- Coordinated communications, managed deliverables, and led sponsor outreach for UTSAV and PHASESHIFT fests.
- Drove sponsor engagement through innovative on-campus and digital marketing activities.
- Served on organizing committees for UTSAV and PHASESHIFT, managing sponsor outreach for college fests.