

# HEMANTH RAJ M V

Bengaluru, Karnataka

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## Education

<b>BMS College of Engineering, Bengaluru</b> B.E in Computer Science (Data Science) Engineering, <b>CGPA: 8.15</b>	October 2023 - Present
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## Relevant Coursework

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- ★ 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

<b>Treasurer, DSync Club</b>	April 2025 – Present
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- 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.