

HEMANTH RAJ M V

Bengaluru, Karnataka

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Education

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

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- ★ Machine Learning ★ Data Mining and Predictive Analysis ★ Data Visualization
 - ★ Database Management Systems

Technical Skills

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- **Programming:** Python, SQL, Java, C
 - **Data Science & Machine Learning:** Pandas, NumPy, Scikit-learn, TensorFlow, Feature Engineering, Model Evaluation, NLP (NLTK), Deep Learning
 - **Big Data & Data Engineering:** PySpark, Apache Spark, ETL Concepts, Data Pipelines
 - **Visualization & Analytics:** Power BI, Tableau, Matplotlib, Seaborn
 - **Data Systems & MLOps:** FastAPI, REST APIs, Docker, RAG Pipelines, LangFlow
 - **Tools:** Git, GitHub, Jupyter Notebook

Projects

YouTube Data Analytics PySpark, Streamlit, Pandas, Plotly, Big Data	GitHub - Live
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- 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	GitHub
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- 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	GitHub
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- 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
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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.