

HEMANTH RAJ M V

Bengaluru, Karnataka

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Education

BMS College of Engineering, Bengaluru

Bachelor of Engineering in Computer Science (Data Science)

Oct 2023 – Present

CGPA: 8.15

Technical Skills

Programming Languages: 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

- **Aadhaar N.E.X.U.S – National Equity & eXclusion Unified System** GitHub Live Demo
Developed an interactive analytics platform transforming Aadhaar operational data into actionable insights across **645+ districts**. Engineered a multi-dimensional **equity scoring engine** computing normalized metrics for access, update load, and service stability using geospatial analysis. Built real-time dashboards with **Streamlit** and **Plotly**, and automated district-level **PDF reports** with actionable recommendations.
- **YouTube Global Trends Analytics** GitHub Live Demo
Built an end-to-end **Big Data pipeline** processing **5.5GB+ / 10M+ records** using **Apache Spark (PySpark)** with advanced feature engineering to handle skewed distributions. Trained a **Random-ForestRegressor** using Spark MLlib with proper **data leakage prevention**, evaluated via R^2 and RMSE. Developed an interactive **Streamlit dashboard** with region filtering and analytics across **113 countries**.
- **Document Q&A System** GitHub
Designed a **RAG-based** document Q&A system with a **FastAPI** backend and **LangFlow** orchestration pipeline using **OpenRouter** as a multi-model LLM gateway. Implemented PDF ingestion using **PyMuPDF** with page-by-page text extraction, structured context injection, and **session-based memory** via unique session IDs. Built a responsive frontend with context-aware real-time chat and drag-and-drop document interaction.

Leadership / Extracurricular

Treasurer, DSync Club

April 2025 – Present

- Managed end-to-end club finances across **10+ events**; owned budgeting, expense tracking, reimbursements, and financial record-keeping with structured digital trackers.
- Secured corporate sponsorships for **DSync Club's** participation in college-level fests **UTSAV** (60K+ footfall) and **PHASESHIFT** (40K+ footfall); handled solo outreach for PHASESHIFT and co-led a 3-member team for UTSAV.
- Designed and pitched **custom-tailored sponsorship packages** to prospects via LinkedIn, email, and social media; tracked outreach pipeline using **Notion** and successfully closed deals with corporate sponsors.