PANCHAMI DINESH
Bangalore, Karnataka | Phone no: +91 9380014420
RV UNIVERSITY | COMPUTER SCIENCE ENGINEERING | 2023-2027 | CGPA-8.22

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Github: **https://github.com/panchamidinesh**
 Languages known: English, Hindi , Kannada

Summary:

Detail-oriented tech enthusiast experienced in data analysis, visualization, and dashboard creation. Knowledgeable in AWS services and data pipeline development. Passionate about applying RAG models for semantic data retrieval and driven by curiosity, research, and innovative problem-solving.

Educational Qualifications:

Computer Science Engineering, majoring in Data Science & Engineering and minors in Research	CGPA-8.2
PUC from Surana Independent PU college	91.8%

Projects

- ***Automating Knowledge Discovery in Material Science with RAG Framework(Conference paper)*** | *link*
- ***Developed a Python-based Retrieval-Augmented Generation (RAG*) system integrating MatSciBERT embeddings and FAISS** for efficient semantic search across scientific PDFs. Implemented NLP workflows for query processing, text chunking, embedding, and similarity-based retrieval. Gradio for interface design and Google Gemini for generating accurate, context-aware scientific responses| . *link*
- ***Automated Reddit Data Pipeline for Airline Sentiment Analysis Using Prefect and AWS S3:*** Engineered an automated ETL pipeline using Prefect to ingest real-time social media data from the Reddit API into AWS S3 for airline brand monitoring |*link*
- **Search Behavior–Driven Skill Demand Analysis using Analytics, NLP, and RAG. |** Developed a skill demand intelligence system using Google Trends, time-series analysis, NLP clustering, and a FAISS-based RAG pipeline with an interactive Gradio interface. | *link*
- ***AI-Powered Project Recommender System*:** Built an intelligent Flask-based web app that suggests hardware projects from user-provided components using Sentence-BERT embeddings and fuzzy NLP matching for semantic understanding.| *link*
- ***Agentic student management system*:** Built an agentic student management system using FastAPI, LangGraph, React, and Tailwind CSS to assess academic risk, recommend interventions, and track decision history through a multi-agent workflow.| *link*

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skills

Data Analysis using python(pandas, matplotlib, seaborn)| Power BI | Database Management | Data Visualization | HTML | React.js| LanGraph | CSS | Python | LLM | NLP | RAG | Machine Learning | JAVA | C. |MySQL| AWS services | ETL Pipeline | Snowflake| MSExcel | Tableau| Spark | Communication | Public Speaking

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Certifications:

- Business Intelligence Using Power BI | link   python for data science |link
- AWS Cloud Quest: Cloud Practitioner | link
- Tata Group - Data Visualisation: Empowering Business With Effective Insights | link