Manoj K R

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PROFESSIONAL SUMMARY

AI and ML enthusiast with a problem-solving mindset, passionate about building intelligent systems that enhance user experiences. I enjoy working on real-world challenges, from predictive analytics to interactive AI applications. I am always eager to learn, innovate, and contribute to impactful projects.

PROJECTS

SDG Classifier

- Built a **multi-source NLP pipeline** (websites/PDFs/videos) to **classify 5,500+ Indian startups** into UN SDGs using TF-IDF + LinearSVC for rapid predictions and distilBERT for low-confidence refinement.
- Engineered a hybrid ML system (speed vs. accuracy trade-off) by routing ambiguous texts from OneVsRest to fine-tuned transformers, **improving Jaccard Score by 7% on edge cases.**
- Visualized SDG trends and co-occurrence in startups using Seaborn, supporting **impact investment decisions** with actionable sector-SDG mappings.

Movie Recommendation Platform

- Developed a **personalized movie recommendation platform** where users receive movie suggestions based on their preferred genres and can retrieve detailed information by providing the movie title..
- Designed a contribution section allowing users to add movie details, which are securely stored in the **SQL database.**
- Efficiently handled both frontend and backend development, ensuring seamless user interaction.
- .Utilized **Django Framework** for back-end development. Integrated SQL to manage user contributions and movie data.

Dream Analysis Bot

- Built an **interactive Dream Analysis Bot** that interprets users' dreams through **natural language prompts** using the Gemini API. Integrated the bot to the frontend application using Django framework to provide seamless user interaction.
- Focused on creating a **personalized storytelling experience** by prompting users to extend or clarify their dreams. Used **Ngrok** to expose the local server and tested simultaneous multi-device interactions for the Dream Analysis Bot.

EDUCATION

M S Ramaiah University of Applied Sciences (GPA: 8.1)
B.Tech, AiML   *Bengaluru, Karnataka*

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications**
    - Introduction to LLMs - SimpliLearn
    - Introduction to PowerBi - SimpliLearn
- **Skills:** Python Programming, Machine learning, Deep learning, Data Structures and Algorithms, SQL, Reasoning, Logical Thinking, Communication, Data Visualization.
- **Frameworks:** Django, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Pytorch, MySQL client, Git, REST.
- **Interests:** Probability, Statistics.