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| **NUTRIGUIDE.AI: PERSONALIZED NUTRITION AND HEALTH MANAGEMENT**    **Abstract:**  NutriGuide.AI is an innovative, AI-driven nutritional platform developed to assist individuals in making informed, personalized decisions about their diet and overall health. Leveraging the power of generative artificial intelligence and real-time data analysis, NutriGuide.AI offers a comprehensive suite of tools that support users in achieving their unique health goals—whether they aim to lose weight, build muscle, manage chronic conditions, or maintain a balanced lifestyle.  The platform provides customized meal plans based on personal health profiles, dietary preferences, and restrictions, ensuring users receive relevant and sustainable nutritional guidance. NutriGuide.AI features real-time nutritional feedback that analyzes food intake, helping users make immediate and informed choices. A key highlight is its image-based nutrient analysis, which uses AI-powered image recognition to scan and evaluate meals for accurate tracking of nutrient content.  To promote safe dietary practices, the platform includes food allergen detection, alerting users to ingredients that may trigger allergies. The system also offers dedicated support for individuals managing chronic health issues such as diabetes, hypertension, and cardiovascular diseases, providing tailored dietary advice aligned with medical guidelines.  With interactive tracking features, users can monitor their daily and weekly nutritional intake, assess progress, and adjust goals accordingly. By combining accessibility, scientific credibility, and user-friendly design, NutriGuide.AI serves as a reliable digital companion for anyone committed to leading a healthier, more informed lifestyle.                      **IOMP ID:**IT-25-29 (Mrs.B Meenakshi)  **Name 1:** K. Tanvish Reddy **Internal Supervisor**  **Roll No:**22261A1228  **Name 2 :** Vishwanath Sai Ruthik (Mrs. U.Chaitanya)    **Roll No:**22261A1263 **IOMP Supervisor** |

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