HARSHITH B N

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Education

Global Academy of Technology   Bengaluru, India
B.E. in Artificial Intelligence and Data Science   *2022 – 2026*

Coursework / Skills

Languages: C, Java, Python, Dart

Databases: MySQL, SQLite, MongoDB

Machine Learning: RandomForest,Decision Tree,XGBoost, Tenserflow, PyTorch

Deep Learning: YOLO, CV, RNN, CNN, LSTM

Core: DSA, Web Development (MernStack,Flutter) Projects

Operating Systems: Windows, Linux (Ubuntu)

Tools: MS Office, Google Workspace, LibreOffice

Soft Skills: Teamwork, Collaboration, Multilingual (English, Kannada, Hindi)

Projects

Interactive Object Segmentation and Cropping using YOLOv8   **Python, Deep Learning**

- Developed an image processing pipeline that detects and segments multiple objects in an image using YOLOv8 segmentation.
- Integrated OpenCV and NumPy to crop objects with transparent backgrounds, and built an interactive interface with Matplotlib for selecting and exporting primary objects.

Health Tracker Mobile Application   **Flutter, Dart**

- Developed a cross-platform Flutter app to log daily health metrics (steps, water intake, sleep hours), validate inputs, and visualize progress using interactive charts.
- Implemented light/dark theme toggle with Provider, persisted user data and preferences using SharedPreferences, and added a history view for reviewing past records.

Agricultural Crop Recommendation -RandomForest   *Python, Machine Learning*

- Implemented a machine learning model to recommend suitable crops based on soil and environmental conditions.

Medical Chatbot   *Python, Hugging Face*

- Developed a GPT-2 based medical Q&A chatbot fine-tuned on *medical-instruction-120k*, licensed under MIT.

AI-Based Smart Assessment System (Ongoing)   **Python, Deep Learning(NLP)**

- Building an intelligent assessment platform with features such as biometric authentication and multi-format question support (MCQs, coding, mathematical, descriptive).
- Incorporating OCR for handwritten answers and personalized analytics to provide detailed teacher feedback and performance insights.

Certifications

NPTEL Certification in Data Science for Engineering
IBM Certification in Getting Started with Enterprise Data Science
IBM Certification in Machine Learning for Data Science Projects
Infosys Certification in Python Foundation

Hobbies / Interests

NCC Army Wing, Ex-CQMS
Composing, Writing Songs, Singing
2D Animation