Category	Your Project
Model Type	CNN (Convolutional Neural Network)
Framework	TensorFlow + Keras
Frontend	Streamlit (Python-based web UI)
Backend	Python
Database	MySQL
Report Generation	FPDF (PDF generation)
Input Type	2D MRI Images
Output	4-class classification + downloadable report

Feature	Your Project	Other Major Technologies
Model Complexity	CNN (simple, effective)	3D CNN, ResNet, DenseNet, EfficientNet (more advanced)
Input Data	2D MRI slices	3D MRI/CT volumes, multi-modal data (PET + MRI + clinical)
Fusion of Data	Planned (clinical + image)	Already implemented in research (multi-modal fusion)
UI/UX Interface	Streamlit web app	Mobile apps, cloud dashboards, integrated hospital systems
Performance (Accuracy)	~85–92% (expected from simple CNN)	Up to 95%+ with fine-tuned ResNet or transformers
Deployment	Local Streamlit app	Cloud (AWS, Azure), APIs, or mobile apps
Explainability	Basic prediction + tips	Often includes Grad-CAM heatmaps, interpretability tools

Feature	Your Project	Other Major Technologies
Model Training	ImageDataGenerator on local folders	Often uses data pipelines like TFRecords or PyTorch Datasets

Metric	Estimated Value (in %)
Accuracy	85% – 92%
Precision	83% – 91%
Recall	80% – 90%
F1-Score	81% – 91%