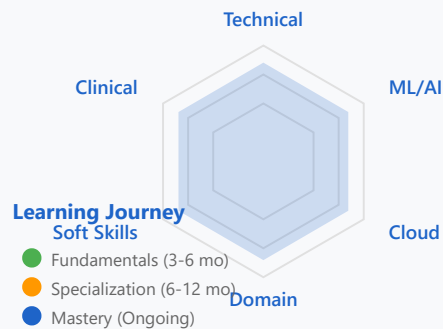


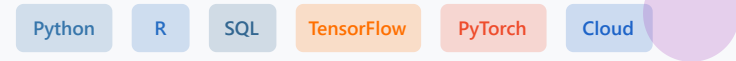
Essential Skills Matrix for Success



Proficiency Levels by Role



Core Technologies



Technical Competencies

- Python/R programming proficiency
- ML/DL frameworks (TF, PyTorch, scikit)
- Cloud platforms (AWS, GCP, Azure)
- Database systems (SQL, NoSQL)

Domain Knowledge

- Clinical workflows & terminology
- Regulatory requirements (HIPAA, FDA)
- Healthcare data standards (HL7, FHIR)
- Disease mechanisms & pathways

Soft Skills

- Cross-functional communication

Continuous Learning

- Online courses (Coursera, edX, Udacity)

- Collaborative problem-solving
- Project management (Agile, Scrum)
- Stakeholder engagement

- Research papers & preprints
- Conference participation
- Open-source contributions



Certification Options: AWS/GCP/Azure ML • TensorFlow Developer • CAHIMS • RHIA/RHIT • Clinical Informatics Board