

Tonessa V. Chatten

Module 6 – Journal

### **Part One:**

Two game-changing technologies in Healthcare IT are AI and blockchain for healthcare data management. AI has transformed diagnostic procedures within medical imaging by enabling more accurate and faster analysis of medical images, such as X-rays, MRIs, and CT scans. AI algorithms can detect patterns and anomalies that may be missed by human eyes, leading to earlier and more precise diagnoses. Blockchain technology disrupts healthcare data management by providing a secure and decentralized way to store and share medical records. This technology ensures data integrity, enhances patient privacy, and allows seamless data sharing across healthcare providers without compromising security.

These technologies are pushing the boundaries of computer science and driving advancements in machine learning, data security, and cryptography. In my career in Healthcare IT, working with AI would align with my focus on improving healthcare technology and data security.

In terms of the impact on Humans, Communities, and the World, AI improves diagnostic accuracy and speed, leading to better patient outcomes and more efficient healthcare delivery. Blockchain technology empowers patients by giving them control over their health data while ensuring their information is secure and accessible across different healthcare systems.

I have achieved most of the course outcomes. I've implemented the database (as MongoDB is HIPAA compliant). I've created the distinct user roles. I've also created the algorithm for the patient's schedule. I'd say the ones remaining in regards to my project is adding a lot more security and also commenting most of my code. I have to get use to this so if there are any changes that need to be made and I'm not around, others will know what's going on.

**Part Two:**

<b>Status Checkpoints for All Categories Checkpoint</b>	<b>Software Design and Engineering</b>	<b>Algorithms and Data Structures</b>	<b>Databases</b>
<b>Name of Artifact Used</b>	“Edit Medical Record” items	Patient’s request for appointment	MongoDB database used (this system is built within Python Django)
<b>Status of Initial Enhancement</b>	Final draft of code done.	Final draft of code in progress	Database created – Information is populated
<b>Submission Status</b>	Submitted to instructor – feedback received  (this was for the Rough Draft)	Submitted to instructor – feedback received  (this was for the Rough Draft)	Submitted to instructor – feedback received  (this was for the Previous module)
<b>Status of Final Enhancement</b>	Final enhancement done, need to upload to GitHub & submit link to ePortfolio.	Working on implementing security enhancements within code.	Working on implementing security enhancements here as well, incorporating feedback such as adding indexes if needed.
<b>Uploaded to ePortfolio</b>	Planned, not yet completed	Planned, not yet completed	Planned, not yet completed