What are the different roles available to those interested in healthcare and data science?

**Business Analyst**
- Make information from models readable and relevant to nurses & doctors
- Fill in gaps between data and the users of data

**Data Scientist**
- Deal with data in different formats, unify it and make it usable
- Build models – beyond basic statistics
- Extract a relevant story from the data

**Development & Operations**
- Hardcore tech

**Levels**
- Jr. Analyst
- Sr. Analyst
- Consultant

- Jr. Data Scientist
- Sr. Data Scientist
- Data Scientist

**Education & Skills**
- Programming Skills
- Some statistics
- Artistic bent - creativity
- Excellent communications skills
- Masters – Ph.D. optional

- Programming Skills
- Modeling skills
- Advanced statistics
- Masters optional; PhD preferred

- Excellent programming skills
- Systems & Hardware
- Data infrastructure

Other roles include those in research – whether its Academia or Pharma – areas in Biology, Cell Biology, Receptors – these mostly require PhD.

In addition, Database design/management and Clinical Trials require quantitative skills along with substantive knowledge in health related areas.

What are the key things employers are looking for?

**Storytelling**
- Must demonstrate an ability to tell a story with the data verbally and through visualizations

**Mung data**
- Healthcare data is old, it lives in different formats and it’s critical to people’s lives. Must be able to piece together this disparate data into usable form and have a conservative approach to working with it

**Build Models**
- Skills beyond statistics. Design and build databases using relational thinking

**Programming**
- Python, R, and SQL are the most prevalent