|  |  |  |
| --- | --- | --- |
| UT-Austin MSBA Capstone project | | |
| **Project Team** | **UT-Austin Practicum Sponsors: Hüseyin Tanriverdi, Ph.D.**  **Michael Hasler, Ph.D**  **UT-Austin Team Coordinator: Alec Grubbs**  **UT-Austin Team: Steve Allen**  **Madhulika Chaudhry**  **Julian Ghadially**  **VisiQuate Executive Sponsor: Sean Kirby** |  |
| Scope of services | | |
| **Predictive Denials** | **Data Sources:** #   1. Flat text file (.csv or .txt) format 2. De-identified, original client production data 3. Patient demographic, clinical, operational, and financial data elements | □ |
| **Historical Files Period** mm.dd.yy – mm.dd.yy   1. Open Accounts mm.dd.yy 2. Closed Accounts (zero balance and bad debt) mm.dd.yy – mm.dd.yy | □ |
| measures of success | | |
| **Operational Goals** | 1. Understanding of product development life cycle    * Introduction to Agile product development techniques    * Introduction to SCRUM process    * Introduction to software engineering concepts and requirements | □ |
| 1. Understanding of healthcare revenue cycle    * Introduction to terminology    * Introduction to healthcare data and how it fits into the big healthcare picture    * Show the leading and lagging indicators associated with the data and the problem set | □ |
| 1. Apply statistical techniques to solve a real healthcare problem    * Apply techniques to predict denied claims before billing    * Apply science to otherwise subjective and routine business practices | □ |
| 1. Prepare solutions that will be used by real clients    * Include outputs from a successful project into the future product development road map    * Work with partner AMC (Academic Medical Center) universities to apply findings | □ |
| **Expected Deliverables** | 1. Project charter    * Mutual understanding and acceptance of business objectives, measures of success, expectations    * Guidepost for project | □ |
| 1. Payer-specific predictive denial models    * What account profiles make up the likelihood that a payer will deny an account    * What type of denial is likely based on the account profile | □ |
| 1. Probability of denial scoring model    * Thresholds for low, medium, high probability    * Scoring model and methodology | □ |
| 1. Methodologies, assumptions, and documentation of models    * Report out on the detailed work product    * Discussion of techniques | □ |
| **Proposed Project Timeline** | Revenue Cycle 101 By 30 Nov | □ |
| Agreement to project charter and other paperwork 30 Nov | □ |
| Access to sample data 4 Dec | □ |
| Review data specifications and tighten requirements 30 Dec | □ |
| Begin weekly status meetings 4 Jan | □ |
| Agile Product Development 101 4 Jan | □ |
| Create SCRUM timeline 11 Jan | □ |
| Project iterations 11 Jan – 25 Mar | □ |
| Final project testing 4 Apr | □ |
| Final project presentations to VisiQuate 11 Apr | □ |
| Final project presentations to faculty advisor(s) 31 Jul | □ |
| **Communication Plan** | Weekly SCRUM meetings   * + Iterative feedback and planning   + Testing assumptions   + Course correction, where needed | □ |