\*\*\*\*\*\*\*\*\*\*\*\* Gleason Score Prediction \*\*\*\*\*\*\*\*\*\*\*\*

------------Starting run of gleason\_1\_Database\_Maker------------

This file will combine & filter data from original datasets:

prad\_tcga\_clinical\_data.xlsx & prad\_tcga\_genes.xlsx

Dataset creation

Dropped 5 rows that are missing in genes data.

New Length: (494, 72)

Done creating dataset. Please find the file gleason\_Data\_1\_Predict\_GleasonScore.csv

------------Ending run of clinic\_1\_Database\_Maker------------

------------Starting run of gleason\_2\_Low\_Variance------------

This file will filter data and drop Nan and zero fetures

and bring down data from 60k features to 20-25k features.

(494, 25735)

(494, 25732)

(494, 25732)

(494, 25733)

------------Ending run of gleason\_2\_Low\_Variance------------

------------Starting run of gleason\_3\_FS\_RF------------

This file will read the filtered 25k fetures and apply

Feature Selection with Random forest and output top600 features.

Feature ranking:

1. feature 6878 (0.000701)

2. feature 14723 (0.000645)

3. feature 7100 (0.000617)

4. feature 18003 (0.000591)

5. feature 1234 (0.000546)

6. feature 2064 (0.000537)

7. feature 17548 (0.000519)

8. feature 21649 (0.000519)

9. feature 20893 (0.000510)

10. feature 8138 (0.000506)

11. feature 18267 (0.000504)

12. feature 21178 (0.000501)

13. feature 12975 (0.000491)

14. feature 4515 (0.000485)

15. feature 2239 (0.000485)

16. feature 9246 (0.000480)

17. feature 891 (0.000479)

18. feature 19417 (0.000458)

19. feature 6343 (0.000456)

20. feature 14330 (0.000456)

21. feature 17063 (0.000450)

22. feature 4909 (0.000448)

23. feature 8278 (0.000447)

24. feature 2087 (0.000446)

25. feature 13292 (0.000437)

26. feature 18503 (0.000434)

27. feature 16943 (0.000430)

28. feature 1319 (0.000428)

29. feature 22370 (0.000428)

30. feature 11015 (0.000428)

31. feature 8436 (0.000422)

32. feature 6312 (0.000414)

33. feature 2525 (0.000411)

34. feature 17280 (0.000406)

35. feature 12498 (0.000404)

36. feature 12101 (0.000403)

37. feature 23999 (0.000402)

38. feature 2729 (0.000400)

39. feature 24742 (0.000399)

40. feature 18074 (0.000396)

41. feature 11829 (0.000394)

42. feature 13789 (0.000391)

43. feature 14692 (0.000388)

44. feature 145 (0.000383)

45. feature 21025 (0.000383)

46. feature 1423 (0.000383)

47. feature 3450 (0.000379)

48. feature 15935 (0.000377)

49. feature 3855 (0.000376)

50. feature 13971 (0.000375)

51. feature 7772 (0.000372)

52. feature 16157 (0.000372)

53. feature 9995 (0.000365)

54. feature 11910 (0.000363)

55. feature 8932 (0.000362)

56. feature 5200 (0.000362)

57. feature 7002 (0.000360)

58. feature 19958 (0.000359)

59. feature 13907 (0.000357)

60. feature 3076 (0.000356)

61. feature 15920 (0.000351)

62. feature 6224 (0.000348)

63. feature 5652 (0.000347)

64. feature 4160 (0.000347)

65. feature 19505 (0.000344)

66. feature 23771 (0.000343)

67. feature 11051 (0.000342)

68. feature 15739 (0.000341)

69. feature 8526 (0.000333)

70. feature 17427 (0.000332)

71. feature 6438 (0.000331)

72. feature 7515 (0.000330)

73. feature 14014 (0.000328)

74. feature 21055 (0.000327)

75. feature 17299 (0.000327)

76. feature 7989 (0.000324)

77. feature 12811 (0.000320)

78. feature 7086 (0.000319)

79. feature 2631 (0.000319)

80. feature 13668 (0.000318)

81. feature 24525 (0.000317)

82. feature 1985 (0.000316)

83. feature 14901 (0.000312)

84. feature 15788 (0.000310)

85. feature 297 (0.000310)

86. feature 6450 (0.000309)

87. feature 5353 (0.000309)

88. feature 5202 (0.000308)

89. feature 19513 (0.000306)

90. feature 9283 (0.000306)

91. feature 13677 (0.000305)

92. feature 8187 (0.000303)

93. feature 632 (0.000303)

94. feature 20852 (0.000303)

95. feature 8649 (0.000303)

96. feature 4819 (0.000302)

97. feature 15443 (0.000301)

98. feature 24254 (0.000300)

99. feature 6490 (0.000300)

100. feature 3351 (0.000299)

101. feature 9024 (0.000298)

102. feature 18803 (0.000292)

103. feature 19146 (0.000291)

104. feature 17598 (0.000291)

105. feature 13250 (0.000290)

106. feature 5222 (0.000289)

107. feature 17258 (0.000287)

108. feature 3094 (0.000285)

109. feature 23186 (0.000284)

110. feature 3107 (0.000284)

111. feature 10469 (0.000282)

112. feature 22160 (0.000282)

113. feature 15849 (0.000281)

114. feature 14838 (0.000279)

115. feature 10611 (0.000278)

116. feature 7830 (0.000276)

117. feature 3309 (0.000276)

118. feature 14807 (0.000274)

119. feature 4854 (0.000274)

120. feature 15608 (0.000274)

121. feature 22577 (0.000271)

122. feature 18801 (0.000271)

123. feature 9601 (0.000271)

124. feature 5760 (0.000271)

125. feature 9521 (0.000270)

126. feature 19081 (0.000269)

127. feature 11803 (0.000269)

128. feature 5089 (0.000268)

129. feature 21296 (0.000267)

130. feature 23806 (0.000267)

131. feature 9575 (0.000266)

132. feature 3500 (0.000266)

133. feature 5278 (0.000265)

134. feature 8746 (0.000264)

135. feature 4002 (0.000264)

136. feature 2505 (0.000264)

137. feature 1464 (0.000263)

138. feature 7901 (0.000261)

139. feature 13773 (0.000260)

140. feature 13631 (0.000260)

141. feature 22905 (0.000259)

142. feature 14041 (0.000259)

143. feature 11177 (0.000258)

144. feature 23880 (0.000257)

145. feature 2890 (0.000257)

146. feature 18397 (0.000257)

147. feature 19459 (0.000255)

148. feature 12841 (0.000254)

149. feature 1817 (0.000254)

150. feature 10514 (0.000254)

151. feature 12818 (0.000253)

152. feature 7519 (0.000253)

153. feature 25057 (0.000251)

154. feature 4591 (0.000250)

155. feature 10699 (0.000250)

156. feature 13119 (0.000250)

157. feature 6879 (0.000248)

158. feature 10573 (0.000247)

159. feature 15947 (0.000246)

160. feature 1298 (0.000246)

161. feature 12330 (0.000246)

162. feature 24432 (0.000244)

163. feature 7553 (0.000244)

164. feature 20026 (0.000244)

165. feature 18810 (0.000243)

166. feature 25338 (0.000243)

167. feature 18357 (0.000243)

168. feature 8594 (0.000243)

169. feature 8039 (0.000243)

170. feature 21203 (0.000241)

171. feature 7689 (0.000241)

172. feature 2302 (0.000240)

173. feature 9079 (0.000240)

174. feature 16573 (0.000239)

175. feature 543 (0.000239)

176. feature 15974 (0.000239)

177. feature 16534 (0.000239)

178. feature 16283 (0.000239)

179. feature 10008 (0.000238)

180. feature 22695 (0.000237)

181. feature 5751 (0.000235)

182. feature 13873 (0.000235)

183. feature 642 (0.000233)

184. feature 15514 (0.000233)

185. feature 18328 (0.000233)

186. feature 4409 (0.000233)

187. feature 5237 (0.000232)

188. feature 16307 (0.000232)

189. feature 364 (0.000232)

190. feature 3292 (0.000231)

191. feature 20341 (0.000231)

192. feature 11771 (0.000231)

193. feature 18431 (0.000231)

194. feature 7201 (0.000229)

195. feature 10436 (0.000227)

196. feature 8952 (0.000226)

197. feature 16194 (0.000226)

198. feature 22253 (0.000226)

199. feature 20763 (0.000225)

200. feature 7415 (0.000225)

201. feature 7917 (0.000224)

202. feature 1676 (0.000224)

203. feature 25728 (0.000224)

204. feature 23300 (0.000224)

205. feature 13762 (0.000223)

206. feature 1792 (0.000223)

207. feature 24005 (0.000223)

208. feature 24423 (0.000222)

209. feature 21831 (0.000222)

210. feature 4554 (0.000222)

211. feature 11401 (0.000221)

212. feature 17783 (0.000221)

213. feature 11928 (0.000221)

214. feature 6872 (0.000220)

215. feature 13342 (0.000220)

216. feature 6898 (0.000219)

217. feature 6278 (0.000219)

218. feature 1605 (0.000218)

219. feature 5597 (0.000218)

220. feature 12668 (0.000218)

221. feature 21265 (0.000218)

222. feature 3797 (0.000217)

223. feature 23429 (0.000216)

224. feature 25727 (0.000216)

225. feature 16722 (0.000216)

226. feature 306 (0.000216)

227. feature 19692 (0.000214)

228. feature 21956 (0.000214)

229. feature 18007 (0.000213)

230. feature 435 (0.000213)

231. feature 23956 (0.000213)

232. feature 17746 (0.000212)

233. feature 9628 (0.000211)

234. feature 12758 (0.000211)

235. feature 18905 (0.000210)

236. feature 5833 (0.000210)

237. feature 10291 (0.000210)

238. feature 12670 (0.000210)

239. feature 16236 (0.000209)

240. feature 9615 (0.000209)

241. feature 6998 (0.000209)

242. feature 17286 (0.000209)

243. feature 3842 (0.000209)

244. feature 14011 (0.000209)

245. feature 5620 (0.000209)

246. feature 13295 (0.000209)

247. feature 4031 (0.000208)

248. feature 7795 (0.000208)

249. feature 17471 (0.000207)

250. feature 18170 (0.000206)

251. feature 24442 (0.000206)

252. feature 16790 (0.000206)

253. feature 7436 (0.000206)

254. feature 3736 (0.000206)

255. feature 20179 (0.000205)

256. feature 17049 (0.000205)

257. feature 21079 (0.000205)

258. feature 22079 (0.000205)

259. feature 11483 (0.000204)

260. feature 20515 (0.000204)

261. feature 12503 (0.000204)

262. feature 17008 (0.000204)

263. feature 9704 (0.000204)

264. feature 17810 (0.000204)

265. feature 24159 (0.000202)

266. feature 22257 (0.000202)

267. feature 12142 (0.000202)

268. feature 12696 (0.000202)

269. feature 17648 (0.000202)

270. feature 23458 (0.000201)

271. feature 9472 (0.000201)

272. feature 14101 (0.000201)

273. feature 3314 (0.000200)

274. feature 20354 (0.000200)

275. feature 2607 (0.000200)

276. feature 7123 (0.000200)

277. feature 19122 (0.000200)

278. feature 1004 (0.000199)

279. feature 19563 (0.000199)

280. feature 16163 (0.000199)

281. feature 21234 (0.000198)

282. feature 51 (0.000198)

283. feature 10434 (0.000197)

284. feature 9355 (0.000197)

285. feature 9001 (0.000196)

286. feature 2944 (0.000196)

287. feature 15667 (0.000196)

288. feature 8414 (0.000195)

289. feature 1613 (0.000195)

290. feature 18373 (0.000195)

291. feature 12419 (0.000195)

292. feature 4384 (0.000195)

293. feature 14770 (0.000194)

294. feature 17007 (0.000194)

295. feature 4853 (0.000194)

296. feature 10522 (0.000194)

297. feature 2090 (0.000194)

298. feature 2317 (0.000193)

299. feature 91 (0.000193)

300. feature 11827 (0.000193)

301. feature 18048 (0.000192)

302. feature 22306 (0.000192)

303. feature 13744 (0.000192)

304. feature 17200 (0.000192)

305. feature 4009 (0.000192)

306. feature 12570 (0.000192)

307. feature 16577 (0.000192)

308. feature 6522 (0.000191)

309. feature 15053 (0.000191)

310. feature 8245 (0.000191)

311. feature 2437 (0.000191)

312. feature 22084 (0.000191)

313. feature 8341 (0.000191)

314. feature 7106 (0.000190)

315. feature 21395 (0.000189)

316. feature 3304 (0.000189)

317. feature 23481 (0.000189)

318. feature 20866 (0.000189)

319. feature 5564 (0.000188)

320. feature 11341 (0.000188)

321. feature 161 (0.000188)

322. feature 9200 (0.000188)

323. feature 3638 (0.000188)

324. feature 17520 (0.000188)

325. feature 14306 (0.000187)

326. feature 10659 (0.000187)

327. feature 3591 (0.000187)

328. feature 22626 (0.000187)

329. feature 10248 (0.000187)

330. feature 13886 (0.000186)

331. feature 12866 (0.000186)

332. feature 12140 (0.000185)

333. feature 1564 (0.000185)

334. feature 16843 (0.000185)

335. feature 6589 (0.000185)

336. feature 11212 (0.000185)

337. feature 18713 (0.000185)

338. feature 12480 (0.000185)

339. feature 6969 (0.000184)

340. feature 10606 (0.000184)

341. feature 7705 (0.000183)

342. feature 8127 (0.000183)

343. feature 13551 (0.000183)

344. feature 16166 (0.000182)

345. feature 23366 (0.000182)

346. feature 2557 (0.000182)

347. feature 23106 (0.000182)

348. feature 14358 (0.000182)

349. feature 9108 (0.000181)

350. feature 6215 (0.000181)

351. feature 11964 (0.000181)

352. feature 985 (0.000181)

353. feature 6014 (0.000181)

354. feature 21654 (0.000180)

355. feature 18383 (0.000180)

356. feature 17684 (0.000180)

357. feature 9179 (0.000180)

358. feature 2629 (0.000179)

359. feature 24146 (0.000179)

360. feature 3657 (0.000179)

361. feature 8903 (0.000179)

362. feature 4989 (0.000179)

363. feature 22712 (0.000179)

364. feature 9954 (0.000179)

365. feature 23038 (0.000179)

366. feature 22554 (0.000179)

367. feature 15711 (0.000179)

368. feature 8540 (0.000178)

369. feature 23463 (0.000177)

370. feature 1629 (0.000177)

371. feature 22192 (0.000177)

372. feature 11891 (0.000177)

373. feature 1340 (0.000177)

374. feature 6712 (0.000176)

375. feature 17187 (0.000176)

376. feature 15590 (0.000176)

377. feature 3195 (0.000176)

378. feature 2346 (0.000175)

379. feature 6710 (0.000175)

380. feature 4249 (0.000175)

381. feature 18519 (0.000175)

382. feature 998 (0.000175)

383. feature 17009 (0.000174)

384. feature 9043 (0.000174)

385. feature 1880 (0.000174)

386. feature 9292 (0.000173)

387. feature 16389 (0.000173)

388. feature 18809 (0.000173)

389. feature 5655 (0.000173)

390. feature 9058 (0.000173)

391. feature 15149 (0.000172)

392. feature 16120 (0.000172)

393. feature 20892 (0.000171)

394. feature 1216 (0.000171)

395. feature 3548 (0.000171)

396. feature 7667 (0.000171)

397. feature 1238 (0.000171)

398. feature 17501 (0.000170)

399. feature 16135 (0.000170)

400. feature 4666 (0.000170)

401. feature 17622 (0.000170)

402. feature 13925 (0.000170)

403. feature 11947 (0.000170)

404. feature 17875 (0.000170)

405. feature 1187 (0.000169)

406. feature 3864 (0.000169)

407. feature 15359 (0.000169)

408. feature 18921 (0.000169)

409. feature 7611 (0.000168)

410. feature 8523 (0.000168)

411. feature 2908 (0.000168)

412. feature 16181 (0.000168)

413. feature 18002 (0.000168)

414. feature 8770 (0.000167)

415. feature 25282 (0.000167)

416. feature 6494 (0.000167)

417. feature 7945 (0.000167)

418. feature 21112 (0.000167)

419. feature 12218 (0.000166)

420. feature 14640 (0.000166)

421. feature 15469 (0.000166)

422. feature 11965 (0.000166)

423. feature 15671 (0.000166)

424. feature 14568 (0.000166)

425. feature 4257 (0.000166)

426. feature 10726 (0.000166)

427. feature 19259 (0.000166)

428. feature 9946 (0.000166)

429. feature 2679 (0.000165)

430. feature 19029 (0.000165)

431. feature 16287 (0.000165)

432. feature 7041 (0.000165)

433. feature 23183 (0.000165)

434. feature 22226 (0.000165)

435. feature 11659 (0.000165)

436. feature 14381 (0.000165)

437. feature 2609 (0.000164)

438. feature 21738 (0.000164)

439. feature 6603 (0.000164)

440. feature 13339 (0.000164)

441. feature 24348 (0.000164)

442. feature 3595 (0.000164)

443. feature 21072 (0.000164)

444. feature 3678 (0.000164)

445. feature 379 (0.000163)

446. feature 3086 (0.000163)

447. feature 14707 (0.000163)

448. feature 4974 (0.000163)

449. feature 3828 (0.000163)

450. feature 20324 (0.000163)

451. feature 9356 (0.000162)

452. feature 4298 (0.000162)

453. feature 9550 (0.000162)

454. feature 3950 (0.000162)

455. feature 24221 (0.000162)

456. feature 10865 (0.000162)

457. feature 14714 (0.000161)

458. feature 16303 (0.000161)

459. feature 6535 (0.000161)

460. feature 6683 (0.000161)

461. feature 2808 (0.000161)

462. feature 8024 (0.000161)

463. feature 8256 (0.000160)

464. feature 18339 (0.000160)

465. feature 22010 (0.000160)

466. feature 8264 (0.000160)

467. feature 16895 (0.000160)

468. feature 23985 (0.000160)

469. feature 6560 (0.000159)

470. feature 10975 (0.000159)

471. feature 1572 (0.000159)

472. feature 6532 (0.000159)

473. feature 6120 (0.000159)

474. feature 19950 (0.000159)

475. feature 16854 (0.000159)

476. feature 5186 (0.000159)

477. feature 14860 (0.000159)

478. feature 16520 (0.000158)

479. feature 532 (0.000158)

480. feature 17256 (0.000158)

481. feature 24085 (0.000158)

482. feature 6816 (0.000158)

483. feature 18526 (0.000158)

484. feature 9363 (0.000158)

485. feature 12817 (0.000158)

486. feature 23387 (0.000158)

487. feature 7197 (0.000157)

488. feature 23523 (0.000157)

489. feature 21259 (0.000157)

490. feature 16372 (0.000157)

491. feature 12200 (0.000157)

492. feature 22516 (0.000157)

493. feature 11095 (0.000157)

494. feature 803 (0.000156)

495. feature 15084 (0.000156)

496. feature 3809 (0.000156)

497. feature 16099 (0.000156)

498. feature 8690 (0.000156)

499. feature 11102 (0.000156)

500. feature 7794 (0.000156)

501. feature 11863 (0.000156)

502. feature 19085 (0.000156)

503. feature 4045 (0.000156)

504. feature 10502 (0.000156)

505. feature 11651 (0.000156)

506. feature 25358 (0.000156)

507. feature 23310 (0.000156)

508. feature 20437 (0.000155)

509. feature 19829 (0.000155)

510. feature 14476 (0.000155)

511. feature 22467 (0.000155)

512. feature 4761 (0.000155)

513. feature 21132 (0.000155)

514. feature 21330 (0.000155)

515. feature 17249 (0.000155)

516. feature 25583 (0.000155)

517. feature 21819 (0.000155)

518. feature 22784 (0.000155)

519. feature 23178 (0.000154)

520. feature 9084 (0.000154)

521. feature 18387 (0.000154)

522. feature 22421 (0.000154)

523. feature 4354 (0.000154)

524. feature 16073 (0.000154)

525. feature 20951 (0.000154)

526. feature 18474 (0.000154)

527. feature 7679 (0.000154)

528. feature 21268 (0.000154)

529. feature 8244 (0.000154)

530. feature 6527 (0.000153)

531. feature 740 (0.000153)

532. feature 12119 (0.000153)

533. feature 3101 (0.000153)

534. feature 15002 (0.000153)

535. feature 7805 (0.000153)

536. feature 6122 (0.000153)

537. feature 16835 (0.000152)

538. feature 11302 (0.000152)

539. feature 3617 (0.000152)

540. feature 1054 (0.000152)

541. feature 10608 (0.000152)

542. feature 6754 (0.000152)

543. feature 25141 (0.000152)

544. feature 2634 (0.000152)

545. feature 12754 (0.000152)

546. feature 2597 (0.000152)

547. feature 13648 (0.000152)

548. feature 11552 (0.000152)

549. feature 22535 (0.000152)

550. feature 10993 (0.000151)

551. feature 4197 (0.000151)

552. feature 24538 (0.000151)

553. feature 9878 (0.000151)

554. feature 25322 (0.000151)

555. feature 17451 (0.000151)

556. feature 13935 (0.000151)

557. feature 21793 (0.000151)

558. feature 16708 (0.000151)

559. feature 9409 (0.000151)

560. feature 11053 (0.000151)

561. feature 2226 (0.000151)

562. feature 20793 (0.000150)

563. feature 18338 (0.000150)

564. feature 23893 (0.000150)

565. feature 16448 (0.000150)

566. feature 12861 (0.000150)

567. feature 9829 (0.000150)

568. feature 21090 (0.000150)

569. feature 17511 (0.000150)

570. feature 19876 (0.000150)

571. feature 10379 (0.000149)

572. feature 14094 (0.000149)

573. feature 23912 (0.000149)

574. feature 11163 (0.000149)

575. feature 2500 (0.000149)

576. feature 8791 (0.000149)

577. feature 6940 (0.000149)

578. feature 1998 (0.000149)

579. feature 24036 (0.000148)

580. feature 12926 (0.000148)

581. feature 594 (0.000148)

582. feature 2245 (0.000148)

583. feature 10479 (0.000148)

584. feature 9803 (0.000148)

585. feature 6479 (0.000147)

586. feature 17169 (0.000147)

587. feature 24557 (0.000147)

588. feature 4185 (0.000147)

589. feature 1760 (0.000147)

590. feature 23060 (0.000147)

591. feature 9627 (0.000147)

592. feature 17477 (0.000147)

593. feature 22507 (0.000147)

594. feature 22480 (0.000147)

595. feature 6866 (0.000147)

596. feature 7658 (0.000147)

597. feature 22069 (0.000147)

598. feature 21975 (0.000147)

599. feature 6802 (0.000147)

600. feature 8303 (0.000147)

------------Ending run of gleason\_3\_FS\_RF------------

------------Starting run of gleason\_4\_Final\_Score------------

This file will take top 600 feaatures and using MRMR filter it down to top 20

and then uses LDA classifier to pick top 3 and find the accuracy.

(494, 604)

\*\*\* This program and the respective minimum Redundancy Maximum Relevance (mRMR)

algorithm were developed by Hanchuan Peng <hanchuan.peng@gmail.com>for

the paper

"Feature selection based on mutual information: criteria of

max-dependency, max-relevance, and min-redundancy,"

Hanchuan Peng, Fuhui Long, and Chris Ding,

IEEE Transactions on Pattern Analysis and Machine Intelligence,

Vol. 27, No. 8, pp.1226-1238, 2005.

\*\*\* MaxRel features \*\*\*

Order Fea Name Score

1 1 Unnamed: 0.1 8.948

2 85 ENSG00000019582.13 8.147

3 88 ENSG00000092841.17 7.368

4 516 ENSG00000125144.12 7.230

5 277 ENSG00000130529.14 7.073

6 422 ENSG00000164692.16 6.588

7 240 ENSG00000127954.11 6.485

8 177 ENSG00000165119.17 6.465

9 452 ENSG00000187097.11 6.350

10 600 ENSG00000063046.16 6.284

11 142 ENSG00000172725.12 6.283

12 501 ENSG00000173726.9 6.220

13 543 ENSG00000199753.1 6.041

14 317 ENSG00000130724.7 5.992

15 224 ENSG00000113013.11 5.915

16 69 ENSG00000167460.13 5.837

17 435 ENSG00000165672.6 5.818

18 183 ENSG00000135842.15 5.805

19 574 ENSG00000111229.14 5.800

20 231 ENSG00000147155.9 5.778

\*\*\* mRMR features \*\*\*

Order Fea Name Score

1 1 Unnamed: 0.1 8.948

2 85 ENSG00000019582.13 1.000

3 576 ENSG00000269890.1 1.231

4 523 ENSG00000212766.8 1.825

5 199 ENSG00000189164.13 2.412

6 602 GLEASON\_PATTERN\_PRIMARY 2.932

7 46 ENSG00000108958.4 3.480

8 379 ENSG00000230513.1 4.031

9 22 ENSG00000144152.11 4.565

10 469 ENSG00000251192.6 5.048

11 113 ENSG00000010539.10 5.593

12 54 ENSG00000254285.3 6.080

13 71 ENSG00000271335.4 6.537

14 389 ENSG00000132622.9 6.945

15 102 ENSG00000183765.19 7.346

16 217 ENSG00000164366.3 7.781

17 281 ENSG00000223658.6 8.264

18 397 ENSG00000267681.1 8.669

19 599 ENSG00000200550.1 9.058

20 603 GLEASON\_PATTERN\_SECONDARY 9.460

[[ 9 0 0 0]

[ 0 54 0 0]

[ 0 0 10 0]

[ 0 0 0 26]]

Accuracy: 1.0000

Average Accuracy: 0.999 (0.006)

------------Ending run of clinic\_4\_Final\_Score------------

Process finished with exit code 0