**Weekly Work Log**

|  |  |  |
| --- | --- | --- |
| **[27/01/2019]-[3/01/2019]** | **Name:** | **Jeremy Hepker** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Task Description** | **Day** | **Hours** | **NOTE** | **SUPERVISOR NOTE** | |
| Researched found methods on splitting LT and HT, implement finding. | Monday | 2 | Implemented a method of splitting the TLD from low and high temperature. May be best for analytic mode. Removed for now. |  |  |
| Meeting with team | Tuesday | 1 | Discuss implementation questions(see developer notes) |  |  |
| Develop auto-plotter to aid in development and testing. | Tuesday | 2 | Fix output from file\_manager.cpp |  |  |
| Develop auto-plotter to aid in development and testing. | Wednesday | 1 | Finished for testing develop further for production use. | Show team |  |
| Work on methods of least-squares method for non-linear functions and the Levenberg–Marquardt algorithm for minimization | Wednesday | 1 | I’m lost on implementation ideas. |  |  |
| Read final paper materials -mbox | Wednesday | 1 | Started template |  |  |
| Implement a Levenberg–Marquardt algorithm | Thursday | 2 | Output deconvoluted thousands of peaks. Something is wrong. |  |  |
| Try manually setting temperature ranges | Thursday | 1 | Failed to reduce to threashold. |  |  |
| Research better Levenberg–Marquardt algorithm | Saturday | 1 | Added papers to useful paper folder, method still unfinalized. |  |  |
| Combine a sum of functions/gaussian method that seemed feasible | Sunday | 3 | Deleted due to speed problems. Single tld 100 taking 15 minutes. |  |  |
| Decide I need to consult with jack. | Monday | .1 |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

|  |
| --- |
| **Task List (obstacles & solutions)** |
| Finish First order kinetics model for most common TLDs |
| Research OTOR Model and line up 2-3 possible algorithms |
| Develop crude numerical methods for OTOR |
| Discuss the value of analytic mode |
| Comment work thus far |
| Read Keafott’s preferred paper layout and create outline to begin adding notes too |
| Time each part of program and start preformance log in developer notes |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |

*www.freebusinesstemplates.net*