**COMP8535-2022-S1-WeeklyStudyPlan**

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| **Week/Task** | **Tuesday Lecture:**  **16:00PM-18:00PM**  **(dual delivery: zoom + in-person)**  **Dual recording.** | **Wednesday**  **Computer Lab**  **(Zoom + in person)** | **Thursday tutorial**  **(guided homework solutions)** | **Homework:**  **(submit to Wattle , typed PDF file)** | **Project**  **(Individual research project)** |
| Week-1:  (21st Feb 2022 --27th Feb ) | Introduction;  Math-1 (lin alg) | No activity. | No activity. |  |  |
| Week-2:  (28 Feb – 6th Mar.) | Math-2:   (probability; unconstrained and constrained optimisation)  Ranking (PageRank algo.) | CompLab-0 (warm-up)  Python and  Github tutorial.  ( Duty Tutor: Evan) | No activity. | HW-1 announced:   math and ranking. |  |
| Week-3:  (7th Mar– 13 Mar) | Recommendation algorithms and systems (collaborative filter) | CompLab-1:  Basic linear algebra.  (Duty Tutor: Dian ) | No activity . | Hw-2 announced:  SVD etc. |  |
| Week-4:  (14 March – 20 March /ECCV) | LDR:  High dimensional data;  PCA;  MDS; |  |  |  |  |
| Week-5:  21st Mar to 27 Mar. | Manifold Learning:  IsoMap + LLE ; tSNE  Others: Introducing candidate project topics. | CompLab-2:  High Dim data; MDS.  (Duty Tutor: Evan) | HW1 tutorial. | HW-1 dues on this Monday afternoon; | Project topics announced. |
| Week-6:  28 Mar - 3rd April | K-means;  Spectral clustering | CompLab-3:  Manifold learning &  K-Means clustering.  (Duty Tutor: Dian ) |  | HW-3: announced:  k-means, normalized-cut;  HW-1 results return to students by this Friday afternoon; |  |
| B1: (teaching break, 4th April --10 th April ) |  |  |  | HW-2 dues on this Friday afternoon. |  |
| B2:  (teaching break, 11th April – 17th April ) |  |  |  |  |  |
| Week-7:  (18 April – 24th April ) | Signal Recovery from projections:  ( CT ) |  | Hw2 tutorial |  |  |
| Week-8:  (25th April– 1st May ) | BSS and ICA |  | Project check point and Q&A session. | HW-3 due on this Friday afternoon. |  |
| Week-9:  (2nd May - 8th May.) | Compressive Sensing-1 |  | Hw3 tutorial | HW-4 announced; |  |
| Week-10:  (9th May …) | Compressive Sensing-2 | CompLab-4:  Compressive Sensing.  (Duty Tutor: Evan ) |  |  |  |
| Week-11:  (16th May-22 May ) | Compressive Sensing-3 |  |  |  |  |
| Week-12  (23 May -- 27 May.) | No lecture |  |  | HW-4 due on this Friday afternoon; | Project Report Due this Friday Afternoon. |
| Week-13 –   Exam Weeks |  |  |  |  |  |