



 CARTOONSTOCK

Search ID: mdbn347

It seems like a good idea, but is it scalable?

https://s3.amazonaws.com/lowres.cartoonstock.com/animals-scalable-product-mice-cats-slingshot-mdbn347_low.jpg

COM6012: Scalable Machine Learning - Spring 2022

<https://github.com/haipinglu/ScalableML> (Since 2019)

The University of Sheffield

Two Lecturers



Haiping Lu
Module leader



Mauricio A. Álvarez

Five Demonstrators (TAs)



Areeb Sherwani (Head)



Pawel Pukowski



Nada Yehia

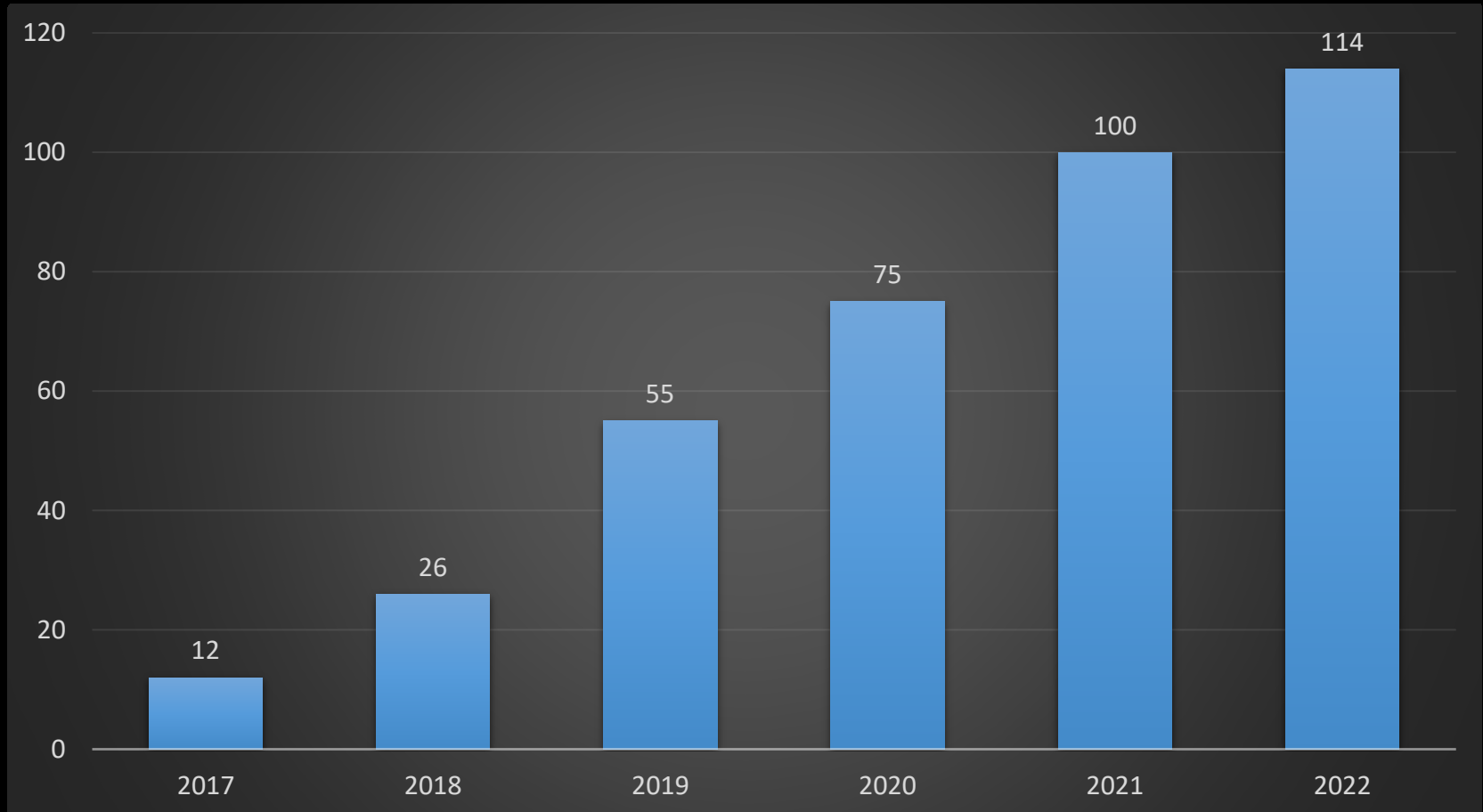


Benediktas Valys



Lawrence Schobs

Number of Students



Lectures and Labs

- Lecture: Thursday 10-11am @ Broad Lane Block (Mappin Building) LT 7



- Lab: Thursday 12-2pm @ Diamond Computer Room 3
 - Finish required part of the labs in this slot!



Other Interactions

- Online sessions
 - Lecturer blackboard collaborate office hour: Monday 1-2pm
 - Discord help sessions: Friday TBC one-hour slot in 11am-4pm
- BB discussion board: post your questions to get answered by the lecturer
 - One general forum: general question/feedback
 - Two lecture & lab forums: Haiping + Mauricio
 - To get help on lecture/lab contents
 - Two assignment forums: one for each part of the assignment
 - To ask for **clarification** on assignment **questions (i.e. the tasks to do)**
 - **NOT** to ask **how to solve the problems**, the correctness of a specific solution, or share a possible solution. It is an **assessment**.
- Direct email to the lecturer: personal/private issues

Assessment

- Lab exercises: 0% (self assessment)
 - Finish lab exercises by Tuesdays
 - Solutions to release on Wednesdays
- Assignment: 50%
 - Release: Part 1 = 17 March, Part 2 = 31 March 2022
 - Deadline: 15:00 on 05 May 2022 (end of lab)
 - Solution release: 12 May 2022
 - Marking and feedback deadline: 26 May 2022
- Final exam: 50%
 - To be scheduled in exam period (23 May – 10 June)
 - Formal exam on Blackboard: 2 hours

Contents: More Hands-on

Week	Date	Topic	Lecturer
1	10 Feb	Introduction to Spark and HPC	Haiping
2	17 Feb	RDD, DataFrame, ML pipeline, & parallelization	Haiping
3	24 Feb	Scalable decision trees	Mauricio
4	03 Mar	Scalable logistic regression	Mauricio
5	10 Mar	Scalable generalized linear models	Mauricio
6	17 Mar	Scalable neural networks	Mauricio
7	24 Mar	Scalable matrix fact. for collaborative filtering (RecSys)	Haiping
8	31 Mar	Scalable K-means clustering	Haiping
9	28 Apr	Scalable PCA for dimensionality reduction	Haiping
10	05 May	Apache Spark in the Cloud	Mike