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learn how easy it is to apply sophisticated statistical and machine learning methods to real world problems when you build on top of the google cloud platform gcp this hands on guide shows developers entering the data science field how to implement an end to end data pipeline using statistical and machine learning methods and tools on gcp through the course of the book you ll work through a sample business decision by employing a variety of data science approaches

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data science teams looking to turn research into useful analytics applications require not only the right tools but also the right approach if they re to succeed with the revised second edition of this hands on guide up and coming data scientists will learn how to use the agile data science development methodology to build data applications with python apache spark kafka and other tools author russell journey demonstrates how to compose a data platform for building deploying and refining analytics applications with apache kafka mongodb elasticsearch d3 js scikit learn and apache airflow you ll learn an iterative approach that lets you quickly change the kind of analysis you re doing depending on what the data is telling you publish data science work as a web application and affect meaningful change in your organization build value from your data in a series of agile sprints using the data value pyramid extract features for statistical models from a single dataset visualize data with charts and expose different aspects through interactive reports use historical data to predict the future via classification and regression translate predictions into actions get feedback from users after each sprint to keep your project on track

the march towards on line and blended teaching present before the covid 19 pandemic has been accelerated by it and there is no going back students and staff may object but the economic drive towards greater productivity will inevitably result in less face to face f2f instruction therefore it is incumbent for those delivering this precious in person resource to make maximum use of time which raises the question how the second edition of higher education computer science offers some potential answers it also addresses other questions such as why have f2f teaching at all what is the purpose of f2f and what is the appropriate balance between the two the first edition began to offer suggestions for optimising limited opportunities to get together with students aligned with that this unique new volume examines how to use the technology available to maximum advantage for example resources such as moocs and other on line instructional materials can provide invaluable pedagogic support in addition the book addresses problem based learning using robotics in the teaching of programming and a multidisciplinary approach to data science although it includes a chapter on distance learning there is greater emphasis placed on the soft transferable skills and employability skills that are best delivered in person further the work provides several examples of putting theory into practice when teaching computer science at both undergraduate and postgraduate levels written by experienced practitioners each chapter tackles a particular teaching activity or topic within computing presented in such a way that other practitioners can use as such this new volume will be an invaluable resource to those who want to protect and optimise in person teaching

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