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© 2020 edX Inc. All rights are reserved except for those noted. edX, Open edX and edX and Open edX logos are registered trademarks or trademarks of edX Inc.: Visit us in [guides@classcentral.com](mailto:guides@classcentral.com) if you have any feedback or requests for specific career guides. We are also looking for participants! Here are the parts of the series that have been published so far: Our picks for the best online introductory statistics and probability courses for people wanting to learn science data are the University of Texas at Austin Basics Data Analysis two-part series (Statistics using R and Inferential Statistics). The series includes two of the best courses reviewed available with a weighted average score of 4.48 out of 5 stars over 20 reviews. This is one of the few courses/series in the top tier of rankings that teaches statistics with a focus on coding examples. Data Analysis Basics - Part 1: Statistics Using R of Texas at Austin on edX Data Analysis Basics - Part 2: The conclusional statistic of the University of Texas at Austin on the edX Stellar Specialization Update (December 5, 2016): Our initial second recommendation, university of California at Berkeley Stat2x: Introduction to the Series Statistics, closed their enrollment a few weeks after the release of this article. We have raised our top recommendation in the Competition section accordingly. Based on a course that had a 4.82-star weighted average rating of more than 55 reviews, Duke University's stats with an R specialization is another excellent option. The five-course specialization, which is relatively new, has a comprehensive curriculum with full sections on probability. There are only five reviews for the new individual courses, so their 3.6-star weighted average rating should be taken with a grain of salt. Stats from Duke University's R Specialty at Coursera... which contains the following five courses: Introduction to probability and data inferential linear regression statistics and simulation Bayesian Statistics statistics with R Capstone Want more probability? If you want to delve into the probability, choose MIT 6.041x: Introduction to Probability - Science uncertainty, not the probability of the University of California at Berkeley offering a higher. MIT Offer has by far the highest weighted average rating (4.91 out of 5 stars for 34 reviews) of any course/series reviewed in this guide. 6.041x is almost identical to the MIT version on campus. It covers more probability than standard introduction to probability and statistics, plus it's more (15 weeks) and more complex than most MOOCs. Introduction to Probability - MIT Institute of Technology's Uncertainty Science (MIT) on edX Content Table Why You Should us. I started to create my own master's degree in data data science online courses almost a year ago. I scoured the statistics landscape and took several courses and tested parts of many. I know the options and what content is needed for those who are focused on data analytics or data scientist role. For this guide, I spent 15 hours trying to determine each online introduction to the course statistics offered as of November 2016, extracting key bits of information from their training programs and reviews, and compiling their rankings. For this task, I turned to none other than the open source class of the Central Community and its database of thousands of courses and reviews. Since 2011, Class Central founder Daval Shah has been following online courses than perhaps anyone else in the world. Dhawal personally helped me compile this list of resources. About Data Science Career Guide Class Central Data Sciences Career Guide to Six Parts, which recommends the best MOOCs for launching themselves into the data science industry. The first five parts recommend the best courses for several basic data science competencies (programming, statistics, data science, data visualization, and machine learning). The final part is a summary of these courses and the best MOOCs for other key topics such as data disputes, databases, and even software development. Here are the parts of the series that have been published so far: PS If you're looking for a complete list of MOOCs Data Science, you can find them on the Central and Big Data data page. Statistics and probability probability are not statistics and vice versa. My favorite explanation for their differences is from Stony Brook University: Probability deals with predicting the probability of future events, while statistics include an analysis of the frequency of past events. They explain that probability is primarily a theoretical branch of mathematics that studies the consequences of mathematical definitions, while statistics are primarily an applied branch of mathematics that tries to understand observations in the real world. Statistics are generally seen as one of the pillars of data science. The likelihood that it is less noteworthy is also an important part of the data science curriculum. Joe Blitzstein, a professor at Harvard's Statistical Department, said in this popular answer to the question that novice data scientists should have a good basis in probability theory. Justin Rising, a data scientist with a doctorate in statistics from Wharton, clarified that this good foundation means being comfortable with the likelihood of a bachelor's degree. How we selected courses to review each course must meet four criteria: This should be an introductory course with little or no statistics or probability of experience required. It must be on demand or offered every Months. It has to be duration: at least ten hours in total for the intended completion. It should be an interactive online course, so no books or just reading tutorials. While these are viable ways to learn statistics and probability, this guide focuses on courses. We believe that we have reviewed all the notable course that meets the above criteria. Since there are seemingly hundreds of courses on Udemey, we decided to consider the most considered and the highest ranking of them only. However, there is a chance that we missed something. Please let us know if you think so. As we tested we compiled the average rating and the number of reviews from the Central class and other review sites to calculate the weighted average rating for each course. If the series had several courses (e.g. the University of Texas at Austin two parts of the Series Data Analysis Basics), the weighted average rating for all courses was calculated. We read the text reviews and used this feedback in addition to numerical ratings. We have made subjective training judgments based on three factors: teaching statistics with a focus on encoding examples, preferably in R or Python. Coverage of the basics of probability and statistics. Descriptive statistics, output statistics and probability theory are ideal. What part of the curriculum has to do with data science? Does the program have a specialized content, like genomics, as do several courses of biostatistics? Does the program cover advanced concepts not often used in data science? Why targeted coding? William Chen, a data scientist from Kwor who has a master's degree in applied mathematics from Harvard, wrote the following in this popular answer to the question How can I know the statistics on data science? for any novice data scientist, I strongly recommend studying statistics with a greater emphasis on encoding examples, preferably in Python or R. Since many of the statistical works of a scientist's data are conducted by software. Our Data Analysis Basics Sample - Part 1: Statistics Using R at the University of Texas at Austin on edX Data Analysis Basics - Part 2: The University of Texas' Inference at Austin on edX Data Analysis Basics includes two of the best reviewed statistics courses available with a weighted average score of 4.48 out of 5 stars over 20 reviews. Among the courses/series in the top tier of rankings, this is one of the few that teaches statistics with a focus on encoding examples. Although in none of the course titles, the program does not contain sufficient probability of content to meet our testing criteria. These courses together have a great mix of basics of coverage and opportunities for a novice data scientist. Below information for each course, including their description, curriculum and well-known reviews. Reviews. Data Analysis - Part 1: Statistics using R Basic Information University: University of Texas at Austin Instructor: Michael J. Mahometa, Lecturer and Senior Statistical Consultant at the University of Texas at Austin Platform: edX Pace: Self-Pace Cost: Free Estimated Scale: 6 weeks at 3-6 hours per week. The total estimated scale is 18-36 hours, which can be completed within two weeks if you prefer to binge-research your MOOCs. Description In this first part of the two-part course, we'll be walking through the basics of statistical thinking - starting with an interesting question. We will then examine the correct statistical tool to help answer our question of interest, with the help of R and practical laboratories. Finally, we learn how to interpret our findings and develop a meaningful conclusion. We'll cover the main descriptive statistics - learn about visualization and summation of data, and then model a study where we learn about linear, exponential and logistical functions. We'll learn how to interpret and use these features with the basic Pre-Calculus. These two units will set the student nicely for the second part of the course: Inferential Stats with multiple regression cover. Both parts of the course are designed to cover the same material as a typical introductory course of undergraduate statistics, with an additional twist of modeling. This course is also intentionally designed to be consistent, with each new part to draw on previous themes. After completing their studies, students should feel comfortable using basic statistical techniques to answer their own questions about their own data using a widely available statistical software package (R). With these new skills, students will leave the course with the ability to use basic statistical techniques to answer their own questions about their own data using a widely available statistical software package (R). Students from all walks of life can use this course to better understand their data to make valuable informed decisions. Syllabus Expand The Title View Detailed Syllabus Tag b swaptitle Hide Detailed Syllabus trigclass Arrow Week One: Introduction to Data Why Study Statistics? Variable and Data Dating R and RStudio Week 2: Univariate Descriptive Statistics Charts and Distribution Form Measurement Center and Distribution Normal Distribution Of the Year-Estimation Week Three: Bivariate Distributions Scatterplot Correlation Week 4: Bivariate Distributions (categorical data) Conditional Tables Probability study Independence Week Five: Linear Features Least Squares Line Function Model Function Exponential Data Logs Logistics Model Function Choice Good Mode (Expand) Reviews Best introductory course for statistical use The video is very didactic and it teaches step by step every lesson as well as the R language. The way exercises and tests are offered is very stimulating. I'm waiting for the next course!!! Link to reviews. One of the best online classes I've ever taken, out of about 20. Excellent material, clearly presented and a good level of call for a novice data analyst. I highly recommend Dr. Mahometa and this class! referenced reviews. I work as a biochemist in a large structure of NICRO. I've signed up to learn how to use R and update/learn basic statistics or at least when and why to use what approach. So far this course has fully lived up to my expectations. It is very well done, very interesting and the tutorials are terrific. The reading part is also well done and contains many examples for learning yourself. Pre-lab, laboratory and problem kits are also very good at assessing how we perform. You can also go a little more in depth with additional readings. I'm glad I signed up for the second year. Link to reviews. Data Analysis Basics - Part 2: Inference Basic Information University: University of Texas at Austin Instructor: Michael J. Mahometa, Lecturer and Senior Statistical Consultant at the University of Texas at Austin Platform: edX Pace: Self-Pace Cost: Free Estimated Scale: 6 weeks at 3-6 hours per week. The total estimated scale is 18-36 hours, which can be completed within two weeks if you prefer to binge-research your MOOCs. Description In the second part of a two-time statistics course, we learn how to take data and use it for reasonable and useful conclusions. You will learn the basics of statistical thinking - starting with an interesting question and some data. We will then adopt the right statistical tool to help answer our question of interest - with the help of R and practical laboratories. Finally, we learn how to interpret our findings and develop a meaningful conclusion. We will cover the main output statistics - the integration of the ideas of Part 1. If you have a basic knowledge of narrative statistics, this course is for you. We will learn sample data, study both quantitative and categorical data using statistical methods such as t-tests, chi-square, ANOVA and Regression. Syllabus Expand The Title View Detailed Syllabus Tag b swaptitle Hide Detailed Syllabus trigclass Arrow Week One: Introduction to Data Why Study Statistics? Variable and Data Dating R and RStudio Week 2: Sampling Why Study Statistics? Distribution Sampling Central Theorem Confidence Intervals Week Three: Hypothesis Testing (One and Two Group Means) What makes the test hypothesis? Alpha testing errors and critical values Sample Test Independent t-test and dependent t-test Week 4: Hypothesis Testing (Categorical Data) Data) chi-square test Goodness-of-Fit Test-of-Independence Week Five: Hypothesis Testing (More than two group funds) ANOVA One-way ANOVA Two-Year Week ANOVA Six: Testing (Quantitative Data) Correlation Simple (single variable) regression Multiple regression (expansion) Reviews Excellent course! I took part of Professor Mahometa 1 course and fell in love with R (without prior knowledge). This I think can be taken individually, but perhaps cooler than the learning curve. The course is designed beautifully with pre-lab, lab and assignments that cement the concept learned through text and video. I've been around on edX since it started and I have to say it's hard to find such a well thought out course and that too offered for free. I hope that Professor Mahometa design more courses on advanced topics. It will be a pleasure to learn. Link to reviews. It's a great course! I attended 1 and enjoyed it a lot so it was very easy to decide to go ahead with Part 2. Dr. Mahometa and the team are very good teachers and their material is of very high quality. Exercises are interesting and materials (video, labs and problems) are appropriate and well-chosen. I recommend this course to anyone interested in statistical analysis (like introduction to machine learning, big data, data science, etc.). On a scale of 1 to 10, I give 5/10! Link to reviews. Star Specialization Update (December 5, 2016): Our initial second recommendation, the UC Berkeley Stat2x series: Introduction to Statistics, closed their registration a few weeks after the release of this article. We have raised our top recommendation in the Competition section accordingly. Stats from Duke University's R Specialty at Coursera... which contains the following five courses: Introduction to probability and data inferential linear regression statistics and simulation Bayesian Statistics statistics with R Capstone Project will be an analysis using R that answers specific scientific/business questions provided by the course group. Students will be provided with a large and complex set of data, and the analysis will require the application of various methods and methods implemented in previous courses, including data research analysis based on data visualization and numerical summaries, statistical output and modelling, as well as interpretation of these results in the context of data and research. The analysis will implement both frequent and Bayesian methods and discuss in the context of the data how the two approaches are similar and different, and what these differences mean for the conclusions that can be drawn from the data. A sample of the best final projects will be available on the Duke's Department of Statistical Sciences website. Note: Only students who have completed four previous major courses are eligible for Capstone. (Expand) Reviews of Inferential Statistics: This course is awesome on so many levels. This is the best output statistical that I've come across. Encountered. Why. The slides are beautiful and visually appealing, making the following strict content easier to digest. Instructors are fascinating and articulate, the explanations are clear and concise. The tasks are very, very tough, which makes the course incredibly difficult, but worth it. That's a huge plus. Without a challenge, a good understanding of statistics will not come ... Again, this is an amazing course! These are rare things! This is, without a doubt, a lot of passion and effort has been put into this course and this series. Link to review. One of the greatest courses I've taken so far. Dr. Mein Setinkaya-Rundel is a great teacher, very actively involved in the exchange with his students. A wide variety of training approaches and tools. A lot of practice through short tests, R-programming labs, and an in-depth project. A very lively forum with a lot of help to cope with difficulties. The course is not too complex, but the variety of material offered requires that students be involved quite substantially. A very good book is available for free with lots of practical exercises. Link to review. Want more probability? Introduction to Probability - The Science of Uncertainty of the Massachusetts Institute of Technology (MIT) on edX Consider above the MIT course if you want a deeper immersion in the world of probability. It is a masterpiece with a weighted average score of 4.91 out of 5 stars over 34 reviews. Keep in mind: It's a challenge and much longer (16 weeks for a total of 12 hours per week) than most MOOCs. The level at which the course covers probability is also not necessary for a beginner of data science. Below are the details of the course, including its description, curriculum and well-known reviews. Introduction to Probability - Science of Uncertainty Basic Information University: Massachusetts Institute of Technology (MIT) Instructors: John Tsycydis and Patrick Jaillet, both of whom are professors in the Department of Electrical engineering and computer science at the Massachusetts Institute of Technology Platform: edX Pace: Self-Paced Cost: Free Schedule: 16 weeks at 12 hours per week. The total estimated scale is 192 hours, which can be completed in less than two months if you prefer to binge-research your MOOCs. Description The world is full of uncertainty: accidents, storms, undisciplined financial markets, noisy communications. The world is also full of data. Probability modelling and the associated statistical output area are the key to analysing data and making scientifically sound predictions. Probability models use the language of mathematics. But instead of relying on the traditional format of theorem - proof, we develop the material intuitively, but still strictly and mathematically accurately. In addition, while the applications are numerous and obvious, we emphasize the basic concepts and applicable. The course covers all basic notions of probability, including: several discrete or continuous random variables, expectations and conditional laws of distribution of large numbers, the basic tools of Bayesian's methods of inference (Poisson Processes and Chain Marks) The content of this course is essentially the same as that of the corresponding MIT class (Probability Systems Analysis and Applied Probability) - a course that has been proposed and continuously improved over more than 50 years. This is a complex class, but it will allow you to apply probability theory tools to real applications or your research. The course materials are organized along the units, which are aligned with the chapters of the textbook. Each unit contains one to three sequences of lectures. Each sequence of lectures consists of short video clips intertwined with short problems to test your understanding. Each unit also contains a variety of additional materials, including videos that go through solving various problems. Syllabus Expand The Name View Detailed Syllabus Tag b swaptitle Hide Detailed Syllabus trigclass Arrow Group 0: Group 1: Review: Probability Model and Axioms L1: Probability Models and Axioms Group 2: L2: Conditioning and Independence: Air Conditioning and BayesA L3 Rule: Independence Unit 3: Unit 4: Count: Discrete Random L5 Variables: L6: Probability Mass And Expectations: Disperation; Air conditioning at the event: A few r.v. L7: Air conditioning on a random variable; Independence of the block r.v. 5: Continuous random L8 variables: Probability density functions L9: Event conditioning; Multiple R v. L10: Random variable air conditioning; Independence; Bayes Rule Group 6: Further Topics on Random Variable L11: L12: Derivatives: Sums of r.v.'s; Sneyarn and L13 correlation: Conditional expectation and variance again; Random number r.v.'s Unit 7: Bayesian conclusion L14: Introduction to Bayesian conclusion L15: Linear models with normal L16 noise: Least average squares (LMS) score L17: Linear least average squares (LLMS) Score Group 8: Limit theorem and classic L18 stats: Inequality, Convergence, and the weak law of large L19 numbers: Central Limit Theorem (CLT) L20: Introduction to Classical Stats Group 9: Bernoulli and Poisson L21: Processes : Bernoulli L22 Process: Poisson Process L23: More on Poisson Process Block 10: Mark Chain L24: The Finour Chain L25: The Sustainable Behavior Of The L26 Circuit Brands: Absorption of Probability and Expected Time for Absorption and Expansion Reviews Many online courses are diluted in some way, but it feels like a proper rigorous exercise managed by a course similar to what you get in the top Massachusetts Institute of Technology. Teh Teh present concepts in lectures that have obviously been honed to laser focus over the years of pedagogical experience - there is not a single wasted second in presentations and they go exactly at the right pace and detail for you to understand the concept. Exercises make you work for your knowledge and are crucial to really internalizing concepts. This is the best online course I have taken in any subject. Link to review. Please visit the Central class page for this course to read the rest of the reviews. The competition Our choice #1 was a weighted average rating of 4.48 out of 5 stars over 20 reviews. Let's look at other alternatives. MedStats: Statistics in Medicine (Stanford University/Stanford OpenEdx): A great curriculum where examples have medical attention. Covers a bit of R programming at the end, though not as much as the UT Austin series. A worthy option for those who, even those who are not focused on medicine. It has a 4.58-star weighted average rating of more than 32 reviews. SOC120x: I Heart Stats: Learning to Love Stats (University of Notre Dame/edX): Goals are non-technical audiences, though probably going well for everyone. No coding. Good production cost. The course and instructors look a lot fun. It has a 4.54-star weighted average rating of more than 12 reviews. M101x: Business Statistics (Indian Bangalore Management Institute/edX): Part of a four-course series. Business focus. A good curriculum that uses coding. The last two courses of the series are not published until November 2016, so they can't make a decision yet. It has a 4.43-star weighted average rating of more than 27 reviews. Udemey Workshop: Taught by Dr. George Ingersoll, Associate Dean of Executive Mba Programs at UCLA Anderson School of Management. It's worth the money. Uses Excel. It has a 4.4-star weighted average rating of

more than 452 reviews. Introduction to narrative statistics (San Jose State University / Udacity): Part of the 2-course series. A video the size of a bite. No coding. It has a 3.88-star weighted average rating of more than 8 reviews. Introduction to conclusion statistics (San Jose State University / Udacity): Part of the 2-course series. A video the size of a bite. No coding. It has a 4.4-star weighted average rating of more than 5 reviews. 6.008.1x: Computational Probability and Conclusion (Massachusetts Institute of Technology/edX): One of two courses/series to teach statistics with the focus of coding examples in Python. Reviews show that preliminary experience of statistics is necessary and that the course is a little disorganized. It has a 4-star weighted average rating of over 12 reviews. Basic Statistics (University of Amsterdam/Courser): One of two statistical courses on methods and statistics from Amsterdam majoring in social sciences. One extremely positive review about the series and its instructors. No coding. It has a 4.06-star weighted average rating of more than 8 reviews. Reviews. Statistics (University of Amsterdam/Kurser): One of two courses in methods and statistics from the University of Amsterdam in social sciences. One extremely positive review about the series and its instructors. No coding. It has a 4-star weighted average rating of more than 3 reviews. PH525.1x: Statistics and R (Harvard University/edX): Part of a series of 7 courses on edX. The life sciences are concentrated. Uses R programming, but reviews show the UT Austin series is better. It has a 4.63-star weighted average rating of more than 4 reviews. Introduction to Statistics (Udacity): This is one of Udacity's earliest courses, and it has its drawbacks, as described in this memorable survey by a college teacher. No coding. It has a 3.93-star weighted average rating of more than 41 reviews. Mathematics Biostatistics Boot Camp 1 (Johns Hopkins University/Coursera): Part of a two-course series. Biostatistics focus. It has a 3.13-star weighted average rating of more than 23 reviews. Mathematical Biostatistics Boot Camp 2 (Johns Hopkins University/Coursera): Part of a two-course series. Biostatistics focus. It has a 3.83-star weighted average rating of more than 3 reviews. KlexploRx: Explore statistics using R (Karolinska Institutet/edX): More data study than a statistical course. Uses coding. It has a 3.77-star weighted average rating of more than 22 reviews. Statistical conclusion (Johns Hopkins University/Coursera): One of the two statistical courses in JHU's computer science specialization. Bad reviews. It has a 2.9-star weighted average rating of more than 29 reviews. Regression Models (Johns Hopkins University/Coursera): One of two statistical courses in JHU computer science. Bad reviews. It has a 2.73-star weighted average rating of more than 30 reviews. DS101X: Statistical Thinking for Science and Data Analytics (Columbia University/edX): Part of Microsoft's Certificate of Professional Data Science Program. A short curriculum. Bad reviews. It has a 2.77-star weighted average rating of more than 24 reviews. Understanding Clinical Research: Behind The Statistics (University of Cape Town / Coursera): This is not a comprehensive course of statistics, but it offers a practical orientation in the field of medical research and widely used statistical analysis. Health care is a focus. It has a 5-star weighted average rating of more than 15 reviews. MED101x: Introduction to Applied Medical Research Statistics (Osaka University/edX): Biostatistics Focus. Uses coding. It has a 4.5-star weighted average rating of more than 3 reviews. Probability and Stats (Stanford University/Stanford OpenEdx): Curriculum Program Well done. One review is really positive. No coding. It has a 4.5-star weighted average rating of more than 1 review. Inference and Forecast Statistics for Business (University of Illinois at Urbana-Champaign/Coursera): Part of a 7-course management economy and business analysis specialization. Uses Excel. It has a 5-star weighted average rating of more than 1 review. Data Research and Production for Business Decision Making (University of Illinois at Urbana-Champaign/Coursera): Part of a 7-course management economy and business specialization analysis. Uses Excel. It has a 5-star weighted average rating of more than 1 review. Introduction to Probability, Statistics and Random Processes (University of Massachusetts Amherst /Independent): Videos are not available for the entire course. It has a 2.5-star weighted average rating of more than 2 reviews. 005x: Introduction to Statistical Gene Mapping Methods (Kyoto University/edX): Focus Genetics. Need preliminary statistics and knowledge R. It has a 2.5-star weighted average rating of more than 1 review. Genomic Science Statistics (Johns Hopkins University/Coursera): Genomic Focus. Not a good introductory course: A fair class for someone with an interest in the field who also happens to have decent experience in R programming. It has a 2-star weighted average rating of more than 2 reviews. At the end of November 2016, there were no reviews for the following courses. About The Grade Central Career Guide Class Central Career Guide guides for the best online courses and MOOCs. The Class Central Career Guide is a recommendation for the best online courses and MOOCs. They have one goal: to give you the opportunity to quickly find out what courses can help you gain new skills and advance your career. Our editorial choices are thoroughly researched using reviews written by Class Central users, as well as data from other sources and our own subjective analysis. These guides are updated frequently to always reflect the best in online education. Please give us a note on guides@classcentral.com if you have any feedback or requests for specific career guides, this will help us prioritize. Also, contact us if you want to help us create more of these career guides. We're looking for participants! David Venturi created a personalized master's computer science curriculum using MOOC. He has a dual degree in chemical engineering and economics, and especially loves mathematics, statistics and coding. He is a huge fan of baseball and hockey, and writes about the latter with a focus on analytics. Twitter Medium Website statistics topics for data science pdf. important statistics topics for data science

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