# Spring 2017 SIPA Capstone Student Application

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| Last Name | Raj |
| First Name | Daanish |
| UNI | dr2779 |
| Columbia UNI Email | dr2779@columbia.edu |
| Graduation Date | May 2017 (Spring 2017) |
| Select your Degree Program: | MIA/MPA-MA Quant Methods |
| Concentration (if applicable) | N/A |
| Specialization (if applicable) | N/A |
| Regional Specialization (if applicable) | N/A |
| If you are not graduating this spring, is there any special reason why you need to take a Capstone workshop in the spring semester? (i.e. you are in a Columbia dual degree program and will be off campus for all of next year)? | No |
| Attach CV/Resume - PDF format and saved as your UNI | Raj_Daanish_-_Resume.pdf (129k) |
| Because many students will travel off-campus at some point during their workshop, students are required to complete a release form to participate in the project. Please complete the SIPA Capstone Workshop release form located in OrgSync available here: **** https://orgsync.com/102464/forms/225086 *** and initial the box below. | Y |
| Please select your 1st choice Capstone workshop: | Quaternion Risk Management |
| List all relevant coursework (You may include relevant previous coursework outside of SIPA. If taken in undergrad, please indicate. Please write the course title rather than the course number) and relevant language skills (please specify which language is your first language and then other languages you speak, indicating proficiency). | At SIPA: Quantitative Analysis II (A+); Macroeconomics, Microeconomics, Decision Models and Management<br>In Statistics Dept: Probability Theory, Statistical Inference, Linear Regression Models, Data Mining (includes popular Machine Learning algorithms - (using R)), Exploratory Data Analysis and Visualization (using R)<br>At the Data Science Institute: Probability & Statistics, Algorithms for Data Science (Python)<br>In Computer Science: Data Structures and Algorithms (Java), Computing in Context (Python)<br>In Journalism: Storytelling with Data (Using D3 and javascript for visualization)<br>Math: Linear Algebra, Analysis and Optimization<br>Prior coursework at the University of Cambridge: Microeconomics, Macroeconomics, Econometrics<br>STATA, R, Python, Java, D3.js,<br>Languages: English and Hindi – proficient; French and Telugu – basic proficiency<br><br>I also have experience cleaning and large data sets, using STATA and R, which I developed while working on the largest household education survey in the world - The Annual Status of Education Report (ASER). |

| Statement of Interest | At Columbia, I've spent a majority of time enhancing my theoretical knowledge through rigorous statistics, CS, and Math courses. I now wish to deploy these skills in real world settings to understand how applications work. Additionally, as an aspiring Data Scientist, it is important for me to appreciate how data science is applied in different fields. Through this project I will learn how statistics is being applied in finance to manage risk.<br><br>I am interested in enhancing my understanding of the 2008 crisis. I hope to learn the flaws in financial models which were being used extensively at the time, particularly the erroneous probabilistic and statistical inferences which were drawn.<br><br>The numerous courses I've taken outside SIPA have equipped me with a solid foundation in data science. I also have a Graduate Diploma in Economics from the Uni of Cambridge, and therefore a strong foundation in econometrics and macroeconomics. This project is the most rigorous data driven capstone project on offer, and hence it is a natural fit for me.<br><br>Lastly, I've worked for several years prior to SIPA, and until recently, served as the President of the Residents' Council at International House. I have the ability to grasp the big picture whilst simultaneously deploying focused analytic skills. Such work and leadership experiences have helped me in professional engagements in client facing roles and team settings. By blending my analytic and people skills, I think I can add value to the team |
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| Please select your 2nd choice Capstone workshop: | World Bank Group |
| Please select your 3rd choice Capstone workshop: | NYC Center for Innovation Through Data Intelligence (CIDI) |
| Please select your 4th choice Capstone workshop: | MasterCard |
| Please select your 5th choice Capstone workshop: | Solar Sister |
| Last Update | 2016-11-03 16:46:51 |
| Start Time | 2016-11-02 20:56:42 |
| Finish Time | 2016-11-03 16:46:51 |