

# SIDDHANT SRIVASTAVA

Junior Year Student (B.Tech-M.Tech dual degree programme)

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## EDUCATION

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**ABV Indian Institute of Information Technology & Management, Gwalior**

Integrated B.Tech-M.Tech degree in Information Technology

July 2014 - Present

Junior Undergraduate

Overall GPA: 8.13/10

**Cathedral Sr. Sec. School, Lucknow**

Intermediate (C.B.S.E.)

Score: 94.4%, Year:2014

High School (C.B.S.E.)

Score: 9/10, Year:2012

## RESEARCH INTERESTS

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- **Data Science:** Machine Learning, Statistics, Mathematical Methods, Artificial Intelligence, Natural Language Processing, Deep Learning, Evolutionary Algorithms.
- **Bioinformatics:** Structural Biology, Systems Biology, Mathematical modelling.

## RESEARCH EXPERIENCE

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**Institute for Bioinformatics and Applied Biotechnology**

May'16 - July'16

***Construction and analysis of protein-protein interaction network in Leishmania donovani***  
Supervisor: Dr. Shubhada Hegde

- *Research objective : Comparison of cross study gene expression data (Agilent Microarray) for drug sensitive and drug resistant L.donovani.*
- *Individual Responsibility: Cross-platform normalized gene expressions from different experiments. Calculated Pearson correlation, mutual information score for gene pairs and implemented Principal component analysis, K-means clustering algorithms on normalized datasets.*
- *Accomplishments: Performed correlation and mutual information analysis on gene pairs to study pattern similarity in gene expression and further employed cluster algorithms. Normalized 22 gene expression samples from 6 different experiments available in NCBI GEO database.*
- *Tools used : Python Scientific stack (numpy, pandas, scikit-learn, matplotlib), R and Rstudio (Bioconductor).*

## CERTIFICATIONS

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- **Specializations**

1. Python for Everybody, a 5-course specialization by University of Michigan on Coursera. Specialization Certificate earned on April 6, 2016.
2. Genomic Data Science, an 8-course specialization by Johns Hopkins University on Coursera. Specialization Certificate earned on October 4, 2016.
3. Data Science , a 10-course specialization by Johns Hopkins University on Coursera. Specialization Certificate earned on November 18, 2016.
4. Machine Learning, a 4-course specialization by University of Washington on Coursera. Specialization Certificate earned on September 16, 2016.

5. Data Mining, a 5-course specialization by University of Illinois on Coursera. Specialization Certificate earned on June 7, 2017.

- **Relevant Courses**

1. Bioinformatic Methods I by University of Toronto on Coursera. Certificate earned on December 18, 2015.
2. Bioinformatic Methods II by University of Toronto on Coursera. Certificate earned on January 17, 2016.
3. Data Analytics and Statistical Inference by Duke University on Coursera. Certificate earned on November 27, 2015.

## TECHNICAL SKILLS

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<b>Computer Languages</b>	C/C++, Python, R, MySQL, Julia.
<b>Software &amp; Tools</b>	MATLAB, Shell, L <sup>A</sup> T <sub>E</sub> X, Anaconda, Rstudio, Jupyter notebook.

## ACADEMIC ACHIEVEMENTS

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A.I.S.S.C.E 2014 Topper, Cathedral Sen. Sec. School  
Secured 99% marks in Chemistry, A.I.S.S.C.E 2014

## POSITION OF RESPONSIBILITY

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<b>Event Organizer</b>	October 2016 - November 2016
<i>Otaku - Anime Quiz</i>	<i>Infotsav 2016</i>

- Organized Manga trivia quiz at Infotsav, the annual technical festival at ABV-IIITM Gwalior

## EXTRA-CURRICULAR

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1. The Power of Microeconomics: Economic Principles in the Real World by University of California, Irvine on Coursera. Certificate earned on March 5, 2016
2. The Power of Macroeconomics: Economic Principles in the Real World by University of California, Irvine on Coursera. Certificate earned on April 12, 2016
3. Game Theory by Stanford Univeristy on Coursera. Certificate earned on November 16, 2015.
4. Introduction to Mathematical thinking by University of Stanford on Coursera. Certificate earned on November 16, 2015.
5. Introduction to Logic by University of Stanford on Coursera. Certificate earned on December 22, 2015.
6. Internet History, Technology, and Security by University of Michigan on Coursera. Certificate earned on January 24, 2016.
7. Duolingo: Intermediate German Fluency.

## RECOMMENDATIONS

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**Dr. Shubhada Hegde**  
Faculty Scientist, IBAB  
shubhada@ibab.ac.in