

SIDDHANT SRIVASTAVA

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

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EDUCATION

ABV Indian Institute of Information Technology & Management, Gwalior

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

July 2014 - Present

Junior Undergraduate

Overall GPA: 8.3/10

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

- **Data Science:** Machine Learning, Statistics, Mathematical Methods, Artificial Intelligence, Natural Language Processing
- **Bioinformatics:** Structure analysis, Systems Biology, Mathematical modelling

RESEARCH EXPERIENCE

Institute for Bioinformatics and Applied Biotechnology

May'16 - July'16

Microarray gene expression analysis of 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

- **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. Machine Learning, a 6-course specialization by University of Washington on Coursera. Specialization Certificate earned on September 16, 2016.

- **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. Biology Meets Programming: Bioinformatics for Beginners by University of California, San Diego on Coursera. Certificate earned on March 14, 2016.
4. Data Analytics and Statistical Inference by Duke University on Coursera. Certificate earned on November 27, 2015.
5. Probability by University of Pennsylvania on Coursera. Certificate earned on November 29, 2015.
6. Hadoop Platform and Application Framework by University of California, San Diego on Coursera. Certificate earned on July 3, 2016.

TECHNICAL SKILLS

Computer Languages	C/C++, Python, R, MySQL,
Software & Tools	MATLAB, Shell, \LaTeX , Anaconda, Rstudio, Jupyter notebook

ACADEMIC ACHIEVEMENTS

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

Event Organizer	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

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

Dr. Shubhada Hegde
 Faculty Scientist, IBAB
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