

Mrugank Dake

Indian Institute of Science Education and Research Tirupati,
Tirupati - 517507.

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Educational Qualifications:

| Degree | Institute | Grades |
|--------------------------------------|--|--|
| Integrated BS-MS (Ongoing) | Indian Institute of Science Education and Research (IISER) Tirupati | Sem I : 7.5 Sem II : 7.7 Sem III : 8.1 Sem IV : 8.3 Sem V : 7.8 Sem VI : 8.6 Sem VII : 8.3 Sem VIII: 8.5 CGPA : 8.1 (scale of 10) |
| Higher Secondary Schooling (12th) | Fergusson College, Pune | 86.00% |
| Secondary Schooling (10th) | Dnyanganga English Medium School, Pune | 95.60% |

Special Achievements :

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| 2020 | Team Mentor for International Genetically Engineered Machine (iGEM) Manav Rachna Institute 2020: iBEC 2020 Grant |
| 2019 | Student Team Leader for International Genetically Engineered Machine (iGEM) IISER_Tirupati 2019: iBEC 2019 Grant and Gold Medal at Giant Jamboree |
| Dec 2016 | Participant at KVPY Vijyoshi National Science Camp, Indian Institute of Science (IISc) |
| Since 2016 | Innovation in Science Pursuit for Inspired Research (INSPIRE SHE) Scholar |
| 2015 | Indian National Brain Bee (INBB) Pune Regional Winner and Ranked 5th at National Level held in Delhi |

Research Experience:

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| (Ongoing) July 2020 to May 2021 | Acoustic analysis of Autonomous Recordings using different Machine Learning Models; Dr. Nandini Rajamani, IISER Tirupati |
| Dec 2019 | Preliminary EEG and MRS Analysis for Behavioral Study on Attentional Blink; Dr. Sridharan Devarajan, IISc Bangalore |
| Nov 2018 to Nov 2019 | iGEM 2019 Project "CoCa coli: designing a colon cancer targeting <i>E. coli</i> "; Prof. B J Rao and Dr. Raju Mukherjee, IISER Tirupati |
| June 2019 to July 2019 | Behavioral Paradigm for the Study of Attention; Dr. Sridharan Devarajan, IISc Bangalore |
| Aug 2019 to Nov 2019 | Practicing Cell culture and Molecular biology techniques with special emphasis on goat hippocampal primary culture; Dr. Vasudharani Devanathan, IISER Tirupati |
| May 2018 to July 2018 | Identifying differentially expressing Tumor Suppressor Genes in <i>Drosophila melanogaster</i> Wing and Haltere Imaginal Discs; Prof. L S Shashidhara, IISER Pune |
| Feb 2018 | RNA Origami (Square); Dr. Ashwani Sharma, IISER Tirupati |
| Sept 2017 to Nov 2017 | Basic Molecular Biology Techniques practiced using <i>Arabidopsis</i> ; Eswarayya Ramireddy, IISER Tirupati |
| May 2017 to July 2017 | Head Direction Cell Model for Rodents with Internal Updating Mechanism; Dr. Collins Assisi, IISER Pune |

Poster Presentations:

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| Nov 2019 | CoCa coli: Probiotic Immunotherapy against Colon Cancer; Giant Jamboree 2019, Boston, MA |
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Teaching Experience:

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| April 2020 till date | Statistics Managed Network Expert at Chegg India |
| Dec 2019 to Feb 2020 | Biology Internship at Sanfoundry, Sanfoundry's Global Learning Initiative |
| Sept 2019 till date | Biology Managed Network Expert at Chegg India |

Society Memberships:

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|-----------------------------|---|
| May 2020 till date | iGEM 2020 Mentor for Manav Rachna Institute |
| Jan 2017 to Nov 2017 | Co-ordinator at Shemushi (Quiz Club), IISER Tirupati |
| 2016 | Disha Member (Student Outreach Club of IISER Pune) |
| 2016 to 2020 | Co-ordinator at Bio wissen (Biology Club), IISER Tirupati |

Other Skills:

1. Python and Matlab Programming
2. Machine Learning and Neural Networks
3. EEG Data Analysis
4. Molecular Biology and Cellular Biology Techniques
5. *Drosophila* handling
6. Mammalian cell culture
7. Passive Blogger at mindmemory.blogspot.com

Areas of Interest:

1. Cognitive Neuroscience
2. Machine Learning
3. Data Analysis

Contact Details :

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