BIKRAM MAJHI

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C-316, NSCB Hostel, IISER Kolkata, Nadia, WB, India

• https://github.com/iiserkbikram — in https://www.linkedin.com/in/bikrammajhi

EDUCATION & CERTIFICATIONS -

Integrated BS-MS in Life Sciences

July 2017 - May 2022

Indian Institute of Science Education and Research, Kolkata, India

CGPA: 8.19/10.00

Department of Biological Sciences MS-Thesis Advisor: Prof. Mohit Prasad

Senior Secondary Education

July 2014 - May 2016

B.J.B Junior College, Bhubaneswar, Odisha

Secondary Education

July 2011 - May 2014

Hemasagar High School, Pakelkhol, Odisha

PAST RESEARCH EXPERIENCE -

Research Project May 2022-Dec 2022

Indian Institute of Science Education and Research, Kolkata, India

Prof. Mohit Prasad, Department of Biological Sciences

Project Title: Investigating the role of Rpn3 in Drosophila Border Cell Migration using MARCM analysis

MS Thesis August 2021 - May 2022

Indian Institute of Science Education and Research, Kolkata, India

Prof. Mohit Prasad, Department of Biological Sciences

Project Title: To investigate the Role of RPN3, a proteasomal subunit component, in Border Cell Migration using mutant analysis

Academic Project May 2020 – Jun 2020

Indian Institutes of Science Education and Research (IISER), Kolkata, India

Prof. Rupak Datta, Department of Biological Sciences

Project Title: Simulation of the cloning process of the gene to produce Aromatic L-Tyrosine Hydroxylase

Academic Project Sept 2019 - Nov 2019

Indian Institutes of Science Education and Research (IISER), Kolkata, India

Dr. Bidisha Sinha, Associate Professor, Department of Biological Sciences

Project Title: *Image Analysis of E. coli growth in β-Mercaptoethanol*

MACHINE LEARNING PROJECTS —

Deep Q-Learning - Lunar Lander

Feb 2023

Machine Learning Specilization

Trained an agent to land a lunar lander safely on a landing pad on the surface of the moon

Deep Learning for Content-Based Filtering

Feb 2023

Machine Learning Specilization

Implemented content-based filtering to build a recommender system for movies

Anomaly Detection Ian 2023

Machine Learning Specilization

Implemented the anomaly detection algorithm to detect failing servers on a network

Housing in Buenos Aires

Nov 2022

Dr. Nicholas Cifuentes-Goodbody, WorldQuant University, USA

Created a machine learning model that predicts apartment prices in Buenos Aires, Argentina.

Housing in Mexico Nov 2022

Dr. Nicholas Cifuentes-Goodbody, **WorldQuant University**, **USA**Worked with a real estate dataset of Mexico to determine what influenced sale prices

TECHNICAL SKILLS -

Programming Languages Python, MATLAB, R

Laboratory Skills Drosophila handling, Immunofluorescence, Cloning, Epifluorescence Microscopy

Immunohistochemistry, Western Blotting, Bacterial Cultures, Transformation

Molecular Dynamics Tools PyMo

Other Softwares TensorFlow, Keras, LaTeX, Origin, Prism-GraphPad, ImageJ,

ACHIEVEMENTS –

• GATE Biotechnology 2023 National Rank-2451

• DBT-Junior Research Fellowship (DBT-JRF) 2022 Ranked under Category-II

• CSIR UGC NET (JRF) 2021 National Rank- 217

Joint Entrance Examination (Main) 2017
 National Rank-1265

• Joint Entrance Examination Advance (IIT-JEE) 2017 National Rank-1186

RELEVANT TECHNICAL COURSES

Mathematical Thinking in Computer Science
Introduction to Graph Theory
Advanced Learning Algorithms
Fundamentals of Reinforcement Learning
Mathematics for Machine Learning
AI For Medical Treatment

Biophysics
Combinatorics & Probability
Bioin
Convolutional Neural Networks
Differential Equations for Engineers
Neural Networks and Deep Learning
Python Programming

AI for Combinatorics & Probability
Bioin
Convolutional Neural Networks
Biostantial Equations for Engineers
Python Programming

Calculations

AI for Medical Diagnosis Bioinformatics Introduction to Graph Theory Biostatistics Matrix Algebra for Engineers Calculus

ONLINE-COURSES -

BOOTCAMPS & WORKSHOPS -

• Applied Data Science Lab, offered by WorldQuant University, USA

• 5 Weeks of Deep Learning, AI Planet formerly DPhi Dec 2022 - Jan 2023

• 5 Weeks of Data Science, AI Planet formerly DPhi Dec 2022 - Jan 2023

 Prevention of Antibiotic Resistance in Environment (PARE) Course under Prof. Sharon Gusky North-western Connecticut Community College, USA conducted by ASM-IUSSTF Jan 2019

Dec 2022 - Present

[&]quot;Introduction to Programming with MATLAB" by Vanderbilt University and offered through "Coursera"

[&]quot;R Programming" by Johns Hopkins University and offered through "Coursera"

[&]quot;Matrix Algebra for Engineers" by The Hong Kong University of Science and Technology and offered through "Coursera"

[&]quot;Introduction to Genomic Technologies" by Johns Hopkins University and offered through "Coursera"

[&]quot;Python for Genomic Data Science" by Johns Hopkins University and offered through "Coursera"

[&]quot;AI For Everyone" by DeepLearning.AI and offered through "Coursera"

[&]quot;Intro to Machine Learning", through "Kaggle"

National Vijyoshi Science Camp, IISER Kolkata
 Organised by IISc, KVPY, IISER Kolkata and DST-INSPIRE

Dec 2017

• Inspire Intership Programme for Young Talents, KIIT University Bhubaneswar Aug 2015 Organised by School of Biotechnology, KIIT University and Sponsored By DST-INSPIRE, India

SEMINARS & CONFERENCE -

• Biomolecular Condensates— Westlake-Science Joint online Symposium

18 Jan 2023

- Indian Drosophila Research Meeting
 Organized by Indian Institute of Science Education and Research Kolkata (IISER K) under the auspices of the Indian Society for Drosophila Researchers
- 3rd Indian C.elegans meeting 2022 Indian worm meeting— India
 27-30 Sept 2022
 Organized by National Brain Research Center, Manesar and Sree Chitra Tirunal Institute for Medical Sciences and Technology, Thiruvananthapuram, Kerala
- Young Neuroscience Investigator's Symposium 2022— Neuroscience Ireland ECRN 27 Oct 2022
- A seminar on the topic "The Guardian of the Genome: Regulation by p53" under the course LS3202

TEACHING EXPERIENCE -

Selected as a Teaching Assistant of Prof. Tushar Kanti Nandi for the Introduction to Economics(HU3201)
course of 3rd year undergraduate students at IISER Kolkata (Jan-May 2022).

REFERENCES

Prof. Mohit Prasad

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Assistant Professor Department of Biological Sciences

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