BIKRAM MAJHI

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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
Jan 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	PyMol
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	Biophysics	AI for Medical Diagnosis
Introduction to Graph Theory	Combinatorics & Probability	Bioinformatics
Advanced Learning Algorithms	Convolutional Neural Networks	Introduction to Graph Theory
Fundamentals of Reinforcement Learning	Differential Equations for Engineers	Biostatistics
Mathematics for Machine Learning	Neural Networks and Deep Learning	Matrix Algebra for Engineers
AI For Medical Treatment	Python Programming	Calculus

ONLINE-COURSES ───

"Introduction to Programming with MATLAB" by *Vanderbilt University* and offered through **"Coursera"**

"R Programming" by *Johns Hopkins University* and offered through **"Coursera"**

"Matrix Algebra for Engineers" by *The Hong Kong University of Science and Technology* and offered through **"Coursera"**

"Introduction to Genomic Technologies" by *Johns Hopkins University* and offered through **"Coursera"**

"Python for Genomic Data Science" by *Johns Hopkins University* and offered through **"Coursera"**

"AI For Everyone" by *DeepLearning.AI* and offered through **"Coursera"**

"Intro to Machine Learning" , through **"Kaggle"**

BOOTCAMPS & WORKSHOPS ──────────────────────────────────

- **Applied Data Science Lab**, offered by WorldQuant University, USA   Dec 2022 - Present

- **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   Jan 2019
    under **Prof. Sharon Gusky** North-western Connecticut Community College, USA
    conducted by **ASM-IUSSTF**

- **National Vijyoshi Science Camp**, IISER Kolkata   Dec 2017
  Organised by IISc, KVPY, IISER Kolkata and DST-INSPIRE

- **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   13-17 Dec 2021
  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
IISER Kolkata, India
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