Bhavya Mishra

Bhopal, India

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EDUCATION

- **B.Tech in Bioengineering** — *2022 – 2026*
  Vit Bhopal University — *Bhopal, India*

- **Higher Secondary Schooling** — *Completed 2022*
  Sant Gyaneshwar Model School (CBSE) — *Lakshmi Enclave, Delhi*

- **Secondary Schooling** — *Completed 2020*
  Apeejay School Noida (CBSE) — *Noida, India*

- **Bachelor of Arts in Bharatnatyam** — *Completed 2021*
  Thyagraja Centre for Music and Dance (Affiliated to Prayag Sangeet Samiti) — *Prayagraj, India*

PROJECTS & RESEARCH WORK

- **Literature Review: Rare Diseases**
  Conducted a systematic literature review on rare diseases including Progeria, ALS, and Harlequin Ichthyosis. My segment focused on Hutchinson-Gilford Progeria Syndrome using research from PubMed and Google Scholar.
  Completed: August 2024

- **Bioinformatics Modules and Lab Work**
  Learned phylogenetic trees, sequential alignment, and FASTA/BLAST protocols using tools like CLUSTAL-W, UniProt, GenBank, EMBL, NCBI, DDBJ, and GenScan.
  Completed: March 2025

- **Comprehensive Study of Bullet Trains in India**
  Reviewed the biomimicry of Shinkansen trains and their relevance to India's bullet train project. Explored historical and engineering design models using Google Scholar.
  Completed: September 2023

- **Influence of Dehydration on Bioimpedance Signals**
  Utilized Orange software and Kaggle dataset to apply a linear regression model on hydration data collected over a week. Confirmed hypothesis that dehydration reduces impedance.
  Completed: October 2024

- **Effectiveness of Cohort Studies in Public Health**
  Wrote a concise article on the role and limitations of cohort studies in India's public health setup as part of the Global Health Challenges course.
  Completed: August 2024

- **Improving Healthcare Systems**
  Developed a scientific article on India's healthcare infrastructure and challenges, based on Johns Hopkins' Coursera course on systems engineering.
  Completed: May 2025

- **Cancer Biology**
  Studied cancer biology and treatment approaches via a Coursera course. Designed a related project referencing class notes and research databases.
  Completed: June 2025

- **Inherited Futures: Ethics of Genetic Disease Trials**
  Reviewed ethical dilemmas in clinical trials for Huntington's and Sickle Cell Anemia. Covered etiology, epidemiology, and ethics using PubMed, Google Scholar, and ResearchGate.
  Completed: June 2025

CERTIFICATIONS & ONLINE COURSES

- Biomaterials: Introduction to Biomedical Engineering – Udemy

- DNA Replication and its Types – Mind Luster

- Animal Biotechnology Fundamentals – Mind Luster

- Bioinformatics Databases – Mind Luster

- Public Speaking Assessment – Learntube

- Python Essentials – Vityarthi

- Fundamentals of AI/ML – Vityarthi

- MATLAB Course – College-provided

Achievements

- Core Member of Dance Club, VIT Bhopal University

- Managed Annual Fest hosted by college

- Represented state in a cultural event for Goa Governor

- 1st Prize in Classical Dance – Thyagraja Institute

- 1st Prize in Folk Dance – Thyagraja Institute

- Silver Medalist in Yoga – Inter-school Competition