SHINJINI VERMA

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# SUMMARY

Dedicated and results-oriented Bioengineering student with a strong academic foundation in biology, chemistry, and engineering principles. Passionate about translational healthcare solutions and biomedical innovation. Seeking an internship to apply theoretical expertise in a dynamic real-world setting while contributing to impactful research and development.

# EDUCATION

B.Tech in Bioengineering  
VIT Bhopal University, Bhopal  
2022 – 2026 | CGPA: 8.02

Senior Secondary (XII)  
Sunbeam School, Varuna – CBSE  
2022 | Percentage: 85%

Secondary (X)  
Sunbeam School, Varuna – CBSE  
2020 | Percentage: 93%

# RESEARCH & PROJECTS

* - Antimicrobial Efficacy of Commonly Used Disinfectants Against E. coli: Investigated the effectiveness of various disinfectants, providing data-driven insights for improved public health and sanitation practices.
* Metabolomics-Guided Identification of Bioactive Compounds from Medicinal Fungi: Utilized advanced metabolomics to pinpoint novel, therapeutically significant compounds from medicinal fungi, contributing to drug discovery efforts.
* Effectiveness of Herbal Remedies in Treating Chronic Diseases (Arthritis): Evaluated the efficacy of herbal remedies in managing arthritis, offering a scientific perspective on traditional medicine and its potential for alternative treatments.
* Genetic and Epigenetic Regulation of Gametogenesis During Embryogenesis: Explored the intricate genetic and epigenetic mechanisms that control germ cell development, a fundamental process in developmental biology.
* AI in Cancer Detection: A Bioengineering Perspective on Diagnostic Tools: Focused on integrating AI and bioengineering to create sophisticated diagnostic tools, improving the speed and accuracy of cancer detection.
* Biomechanics in Injury Prevention Using AI Simulation: Employed AI-driven simulations to analyze human biomechanics, identifying high-risk movements and informing strategies for injury prevention in sports and rehabilitation.
* Immune Memory Beyond Clonality: A Review of Emerging Concepts in Epigenetic and Trained Innate Memory: Reviewed cutting-edge research on how the immune system "remembers" pathogens through epigenetic and trained innate memory, broadening the understanding of immunological memory.

# INTERNSHIPS & CERTIFICATIONS

Tissue Engineering Research Associate – Biolim (Issued July 09, 2025)  
- Engaged in scaffold design, tissue regeneration techniques, and biomaterials research.

Cyber Security Analyst – IBM (Issued April 20, 2025)  
- Acquired insights into ethical hacking, network defense, and risk assessment.

# TECHNICAL & SOFTWARE SKILLS

Programming: Python (Basic), MATLAB  
Tools: Simulink, MS Excel, PowerPoint, Fusion 360  
Research Skills: Literature review, data interpretation, scientific writing  
Web Development: Query-based data presentation (used in “Swift Aid” project)

# PROJECT EXPERIENCE

“Swift Aid” – Natural Disaster Relief Website  
Team Project (8 Members)  
- Developed robust data-fetching and query functionalities.  
- Enabled real-time updates to support efficient aid coordination.

# EXTRACURRICULAR ACTIVITIES

Scriptwriting Competition – 2nd Position (2023)

Drama Competition Participant:  
- Wrote, directed, and acted in an original stage play; demonstrated leadership and creative storytelling.

# KEY STRENGTHS & INTERESTS

Detail-oriented | Research-driven | Effective communicator  
Interest Areas: Stem Cell Therapy, Tissue Engineering, Bioinformatics, Biomedical Devices