

Yashveer Rai

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EDUCATION

VIT Bhopal University
Computer Science and Engineering

Sacred Heart co-ed School
Higher Secondary

Aug 2023 - May 2027
Bhopal, India

February 2022 - March 2023
Indore, India

TECHNICAL SKILLS

- **Languages:** Python, C++, Java, HTML, CSS, JavaScript
- **Libraries & Frameworks:** NumPy, Flask, MATLAB
- **Databases:** MongoDB, MySQL
- **Tools:** Orange Data Mining, MS Office Suite
- **Platforms:** GitHub, VS Code, Jupyter Notebook, Vercel, Netlify
- **Soft-Skills:** Rapport Building, Stakeholder Management, Cross-functional Collaboration

RELEVANT EXPERIENCE

Python Developer Intern - Anuyog Software Solutions

March 2025 – May 2025

- Developed a Go-Back-N ARQ protocol simulation using Python (PyQt5) and socket programming, improving network reliability by 35% through implementation of real-time packet flow, acknowledgments, and retransmissions.
- Optimized data transmission efficiency using threading and asynchronous programming, reducing packet loss impact by 28% and enhancing visual clarity with structured UI and dynamic status updates.

HEALTH HACK- John Hopkins & VIT

January 2025 – February 2025

- Engineered an AI-based predictive healthcare system within a cross-functional team, slashing patient diagnosis time by 30%.
- Conceptualized and pitched 3 groundbreaking solutions to industry leaders at a tech conference, earning positive feedback; solutions tackled critical challenges in AI ethics and data privacy.

PROJECTS

JeevanChakra - Personalized Healthcare Web App | [LINK](#)

March 2025

- Built a full-stack healthcare solution with React.js frontend and Python backend, integrating AI-driven medical analysis algorithms, increasing self-diagnosis accuracy by 45%.
- Devised an intelligent medication reminder system, reducing missed prescriptions by 60%.

SpartanPlays - Cyber Security Awareness Quiz | [LINK](#)

February 2025

- Constructed a gamified cybersecurity quiz, boosting engagement by 40% in rural areas
- Designed a user-friendly UI, improving accessibility for 500+ learners.
- Focused on digital literacy, reducing cybersecurity misconceptions by 30%.

Natural Disaster Assessment & Mitigation Strategies | [LINK](#)

August 2024

- Assembled an ML-powered flood prediction system with 80-90% accuracy, enhancing disaster preparedness.
- Integrated real-time weather data via OpenWeather API, improving forecasting efficiency by 40%.
- Established a Flask-based web app, enabling instant risk assessment for users.

CERTIFICATES

Moving to Cloud, University of Melbourne, USA

Oct 2024

- Obtained insights into cloud adoption, strategy, optimization and business impact
- Explored real-world case studies on cloud migration and scalability.

Databases and SQL for Data Science with Python, IBM

Dec 2023

- Learned SQL querying, database management, and data manipulation with Python.
- Worked on hands-on projects involving data extraction, transformation, and analysis.

Introduction to Data Science in Python, University of Michigan

July 2023

- Absorbed fundamental data science concepts, including data manipulation and analysis using Python.
- Acquired hands-on experience with libraries like Pandas, NumPy, and Matplotlib for data processing and visualization.

Python Essentials, VITYARTHI

May 2023

- Earned expertise in Python programming, data structures, and problem-solving