# Dharmendra Kumar

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## Education

**Vellore Institute of Technology, Bhopal**                                        **2022 − 2026**
*Bachelor of Technology in Computer Science and Engineering*                    *CGPA: 8.04/10*

- **Relevant Coursework**: Data Structures, Object-Oriented Programming, Database Management Systems, Computer Vision, & Machine Learning

**P D D Saraswati Vidya Mandir**                                                    **2020 − 2021**
*Higher Secondary Certificate (Class 12th)*                                    *Percentage: 82.4%*

**P D D Saraswati Vidya Mandir**                                                    **2018 − 2019**
*Secondary School Certificate (Class 10th)*                                    *Percentage: 90.8%*

## Technical Proficiencies

**Languages**: Java, JavaScript, TypeScript, Python, SQL
**Web Development**: React.js, Node.js, Express.js, HTML5, CSS3, TailwindCSS
**Databases**: MySQL, PostgreSQL, MongoDB
**Frameworks**: Flask, Bootstrap, OpenCV, NumPy, Pillow
**Tools & Platforms**: Git, GitHub, VS Code, AWS, Google Colab
**Security & Cryptography**: AES, RSA, PyUmbral, Watermarking Techniques
**Core Competencies**: Full-Stack Development, Computer Vision, DBMS, RESTful APIs, Role-Based Access Control

## Projects

**Secure Cloud File Sharing with Watermarking & Proxy Re-Encryption** | *Python, Flask, SQLite*     **GitHub**

- Architected a secure cloud platform integrating digital watermarking and proxy re-encryption for confidential file sharing.
- Implemented AES/RSA encryption and PyUmbral-based proxy re-encryption enabling zero-knowledge file sharing across users.
- Built role-based authentication system with email-based key distribution using SMTP protocol for Owner, User, and Admin roles.
- Embedded invisible watermarks using LSB steganography with Pillow library to ensure ownership verification post-sharing.
- Designed Flask backend managing upload-watermark-encrypt-store-request-decrypt workflow with SQLite database integration.

**Skill-Share-Hub** | *React, TypeScript, Node.js, PostgreSQL, TailwindCSS*                         **GitHub**

- Developed role-based educational platform facilitating collaboration between teachers and students through session management.
- Constructed RESTful API with Node.js and PostgreSQL supporting granular access controls and secure content distribution.
- Crafted responsive dashboards using React.js and TypeScript with TailwindCSS styling for intuitive user experience.
- Planned asynchronous notification architecture and progress tracking analytics to enhance learner engagement monitoring.

## Professional Certifications

**MERN Stack Developer**                                                                    **2024**
*Ethnus (Codemithra)*                                                          *Credential ID: R4CPT52R*

**IBM Fundamentals & Developer**                                                            **2024**
*IBM Career Education Program*

**Bits and Bytes of Computer Networking**                                                   **2024**
*Google via Coursera*

## Professional Development

- Active participant in technical webinars focused on web development and machine learning technologies
- Continuous learner exploring cloud technologies, system design, and scalable architectures