

Mandar Rajendra Kelkar

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Portfolio | 📍 Pune, Maharashtra-411046, India

About

Self-motivated and diligent BTech student with a strong software development and database management foundation. Proficient in Python, Java, and C, with hands-on experience in building and deploying robust applications using Flask, React, and Django. Additionally, I have participated and won in 4+ hackathons, demonstrating strong teamwork and technical innovation in competitive environments.

Education

Course	Institute	Year	CGPA/%
B.Tech (Computer Engineering)	Vishwakarma University	2024 (2nd Year)	8.1 CGPA
Diploma (Computer Engineering)	Government Polytechnic Malvan	2023	82.57%
SSC	Jay Ganesh English Medium School	2020	88.20%

Skill Set

Programming Languages: C, Java, Python, JavaScript, Solidity

Web Technologies: HTML, CSS, Bootstrap, Tailwind CSS, jQuery, JSON, RESTful APIs

Frameworks: React, Flask, Django, Angular, NodeJS

Databases: MySQL, PostgreSQL, SQLite, MongoDB

Tools: VSCode, PyCharm, Eclipse, Jira, GitHub

Operating Systems: Windows, Linux

Soft Skills: Communication, Teamwork, Problem-Solving, Adaptability, Time-Management, Work Ethic

Languages: English, Marathi, Hindi

Projects

- **MFA Security for Global Bank Online Banking Platform** — [LINK](#)
 - Created a Multifactor Authentication (MFA) system using Flask, reducing unauthorized access incidents by 45%.
 - Secure Access Control: This ensures that only authenticated users with valid credentials are granted access to specific pages or functionalities within the online banking platform.
 - Password Management: Includes enforcing password complexity requirements, implementing password hashing and salting techniques, and enforcing periodic password changes.
 - User Authentication: Involve multi-factor authentication (MFA) methods such as SMS codes, admin authorization, or one-time passwords (OTP) in addition to username and password credentials.
- **TelemedeX** — [LINK](#)
 - Intelligent scheduling prioritizes patients according to urgency and availability of the doctor.
 - Prescription summary and alternative medicine suggestions based on AI with cost-effective recommendations.
 - Google Fit integration provides real-time wearable health data insights.
 - Secure Razorpay-powered payment gateway for hassle-free transactions.
- **Blockchain-Based Academic Credential Storage and Issuing System** — [LINK](#)
 - Secured student enrollment, semester progress, and degree issuance using blockchain technology.
 - Eliminated credential forgery up to 60% with automated digital certificate issuance and verification.

- Enabled students to access and retrieve verified academic records instantly via a blockchain network.
- Allowed credential requests for proficiency or completion certificates with blockchain-backed validation.
- Facilitated seamless global verification for employers and institutions, reducing manual validation efforts.
- **DataHive Student Leaving Certificate Generation and Management System** — [LINK](#)
 - Automated data collection from academic records, attendance, and registration forms reducing administrative workload by 70%.
 - Intelligent data processing to compute grades, attendance, and eligibility for certificates.
 - Dynamic certificate generation ensuring compliance with institutional formats.
 - Robust user management with authentication, role-based access, and activity logging.

Awards

- **NSD Hackathon 2025 (Winner)**
Organized by VU Teklingo, with participation from 45+ teams. Secured first place in the Design and Web Development domain by developing a pet adoption website within the given time. Also achieved second place in the Machine Learning domain by implementing a network traffic anomaly detection system using the KNN algorithm with an accuracy of 80%. Technologies used: React, Node.js, Express, Flask, Matplotlib, Scikit-learn.
- **Visionary Techfeast 2023 (Winner)**
Conducted by the Visionary Club at VU, where 30+ teams participated. Won first place in the cybersecurity domain by developing a robust multi-factor authentication system that integrated OTP verification via Twilio and email authentication using Python and Flask.
- **REX 2023 (Winner)**
A prestigious national-level research and project exhibition competition organized by MITM College. Secured first place with the DataHive project, which automated the generation of leaving certificates. Technologies utilized: Flask, SQLite, Vue.js, PostgreSQL, Render.

Certificates

- **Udemy: The Web Developer Bootcamp Certification** 60-hour course covering HTML, CSS, JavaScript, React, Node.js, and MongoDB.
- **Udemy: The Modern Python3 Bootcamp Certification** 30-hour course on Python, web scraping, and SQLite.
- **Udemy: Ethereum and Solidity - The Complete Developer's Guide** 24-hour course on Ethereum, Solidity, and smart contract development.
- **Coursera: Operating Systems - Overview, Administration, and Security** 17-hour course with a grade of 88%, covering OS navigation, user account management, and cloud computing fundamentals.
- **Coursera: Introduction to Docker** Completed with a grade of 100%, learning container creation, debugging, and Google Container Registry.
- **Coursera: Basic Cryptography and Programming with Crypto API** 16-hour course with a grade of 95.20%, covering encryption, secure coding, application security, cryptographic protocols, and key management.