

# Mallika Manish Rajpal

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GitHub

LinkedIn

## Education

**Vellore Institute of Technology, Bhopal**

**CGPA: 8.45**

Bachelor of Technology in Computer Science and Engineering (CSE)

Oct 2022 – Present

**Gandhigram College, Wardha**

**84.5%**

Class XII (Maharashtra State Board)

Jun 2020 – Mar 2022

**Channawar's e Vidya Mandir, Wardha**

**92.6%**

Class X (CBSE)

Jun 2017 – Mar 2020

## Technical Skills

**Languages:** C, C++, Python, Java, JavaScript, SQL

**Web:** HTML5, CSS3, JavaScript, Bootstrap, RESTful APIs

**Full Stack:** MERN (MongoDB, Express.js, React.js, Node.js), CRUD operations

**ML & Data Science:** Python (Scikit-Learn, TensorFlow, Keras), NLP, Sentiment Analysis

**Databases:** MySQL, MongoDB, SQLite

**Tools:** Git, GitHub, Docker, Postman, VS Code, Figma

## Projects

**DiabeAI — ML-Powered Diabetes Risk Predictor**

*Python, Scikit-learn, Ensemble Learning*

- Analyzed 20+ academic papers to architect a hybrid ML model predicting diabetes risk, accelerating prototype development by 25%.
- Leveraged ensemble methods (Random Forest, XGBoost, Bagging) to enhance prediction accuracy and robustness.
- Achieved 85% accuracy on test dataset with feature engineering and balanced data, reducing false positives by 10%.

**Juno — AI Chatbot for Women's Rights and Safety**

*Dialogflow, Node.js, Express.js*

- Designed and deployed an NLP-driven chatbot delivering legal, health, and safety guidance to women; validated with 100+ test dialogues.
- Engineered dialogue management via **Dialogflow ES** with customized Node.js/Express.js response handlers.
- Integrated iframe support and hosted on **Render**, achieving cross-platform seamless access.

**Skillzy — E-commerce Web App for Online Courses**

*MERN, Stripe API, JWT*

- Developed full-stack MERN platform enabling course discovery, enrollment, and admin/instructor workflows with 50+ active beta users.
- Implemented **JWT-based authentication** and **Role-Based Access Control** for secure multi-role user management.
- Integrated **Stripe API** to process simulated payments during testing, preparing the system for live deployment.
- Automated CI/CD pipeline via **Render**, ensuring zero downtime updates and continuous delivery.

## Certifications

- **IBM:** DevOps, Agile & Design Thinking
- **Google:** The Bits and Bytes of Computer Networking
- **NPTEL – Cloud Computing (IIT Kharagpur):** Elite + Silver, Top 5%

## Leadership & Activities

- **Core Design Member – GeeksforGeeks Campus Club:** Created UI/UX content and visuals, boosting social platform engagement by 200+ students.
- **District-Level Chess Champion:** Honed strategic thinking and decision-making skills in competitive settings.