

# Komal Srivastava

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## EDUCATION

### VIT Bhopal University

Bachelor of Technology, Computer Science – CGPA: 8.02

Sehore, Madhya Pradesh

Sep. 2022 – May 2026

### St. Mary Goretti Girls High School

Higher Secondary Examination – Percentage: 62%

Asansol, West Bengal

April 2020 – April 2021

### St. Mary Goretti Girls High School

Secondary Examination – Percentage: 60%

Asansol, West Bengal

April 2018 – April 2019

## PROJECTS

### Heart Disease Prediction System | Python, Flask, HTML, CSS, Bootstrap

September 2024 – Present

- Tech Stack & Tools:** Developed using Python (**Flask**) for backend, **Scikit-Learn** for machine learning, and **HTML, CSS, Bootstrap** for frontend. The trained model was stored using **Pickle**.
- Data Processing:** Used the **Heart Disease Cleveland** dataset, performed data cleaning, handled missing values, and applied feature scaling with **StandardScaler**.
- Model Training & Selection:** Trained multiple models (**Random Forest, Gradient Boosting, SVM, Logistic Regression, KNN, Decision Tree**) and used **cross-validation** to choose the best-performing model.
- Performance Evaluation:** Assessed model performance using **accuracy, confusion matrix, and classification report**, and visualized results with **Matplotlib & Seaborn**.
- Deployment:** Integrated the model into a **Flask API**, built a **responsive UI** using Bootstrap, and deployed the best model for real-time heart disease prediction.

### Fake News Detection System | Python, Flask, HTML, CSS, Bootstrap

Jan. 2024 – May 2024

- Tech Stack & Tools:** Built using Python (**Flask**) for backend, Scikit-Learn for machine learning, and **HTML, CSS, Bootstrap** for the frontend. The trained model was stored using **Pickle**.
- Data Processing & Model Training:** Applied **TF-IDF vectorization** for text preprocessing and trained a machine learning model to classify fake news.
- Model Loading & Prediction:** Loaded the vectorizer and trained model (**vectorizer.pkl, finalized\_model.pkl**), processed user input, and predicted whether the news is **Fake or Real**.
- Web Interface:** Developed a **Flask-based web app** with multiple pages (**Home, Prediction, Contact Us, About Us**) and a user-friendly input section for fake news detection.
- Deployment:** Integrated the trained model with **Flask API**, built a **dynamic UI** using Bootstrap, and displayed prediction results interactively.

### RFID Smart Door Lock | Arduino, Arduino IDE, RFID Modules, C++

Jan. 2024 – May 2024

- Technology Used:** Built using Arduino, RFID Module (**MFRC522**), Servo Motor, and SPI Communication for secure access control.
- Functionality:** The system scans RFID cards, compares the **UID** with a predefined **authorized ID**, and operates the servo motor to lock/unlock the door.
- Automation & Security:** Ensures automated door operations, allowing seamless and secure access for over **30 personnel**.
- Code Workflow:** Initializes **RFID module and servo**, reads card UID, verifies authentication, and **controls the door lock state** accordingly.
- Real-World Application:** Provides a **cost-effective, efficient, and secure** access control system, ideal for **homes, offices, and restricted areas**.

## CERTIFICATIONS

- NPTEL-** Cloud Computing
- Coursera-** The Bits and Bytes of Computer Networking
- Vityarthi-** Python Essentials

## TECHNICAL SKILLS

**Languages:** Java, Python, C++, SQL (Postgres), JavaScript, HTML/CSS

**Frameworks:** React, Node.js, Flask, WordPress, Bootstrap

**Developer Tools:** Git, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Arduino IDE

**Libraries:** pandas, NumPy, Matplotlib, Scikit-Learn