Aditi

(+91) 8381851710 ● missaditisrivastava@gmail.com ● LinkedIn ● GitHub

TECHNICAL SKILLS

Java, Python, C, HTML, CSS, ReactJS, MongoDB, JavaScript, MERN, Git, GitHub, Database Management, SQL, MS Excel, PowerPoint, Research

PROJECTS

Annadata (HTML, React.js, MongoDB, LightGBM, Flask, HTML/CSS, Plotly)   *Aug 2024 – Mar 2025*
- Designed and deployed a full-stack AI application to recommend optimal crops based on soil and climate data.
- Trained a LightGBM model on a dataset with 2200+ records covering NPK levels, temperature, humidity, pH, and rainfall.
- Built a Flask backend to serve model predictions via a REST API; integrated with an intuitive frontend using HTML/CSS.
- Visualized prediction insights using Plotly and Seaborn; hosted project on GitHub for accessibility.
- Empowers farmers and agri-tech platforms to make data-driven crop decisions for sustainable farming.

Identify Your Blood (React.js, Node.js, MongoDB, Arduino, MAX30100, IoT)   *Jan 2024 – Mar 2024*
- Developed a low-cost, non-invasive system to measure SpO2 and heart rate using MAX30100 sensor with Arduino UNO.
- Implemented signal processing techniques to interpret photoplethysmographic (PPG) signals for accurate data acquisition.
- Addressed challenges related to voltage levels and I2C communication by optimizing circuit design and resistor configuration.
- Proposed practical applications in telemedicine and home healthcare, contributing to accessible health monitoring solutions.

Textual Fingerprinting: Distinguishing Human vs AI Writing (Python, BERT, ML)   *Apr 2024 – Jul 2024*
- Engineered a binary text classifier using the BERT transformer model to identify AI-generated content versus human writing.
- Processed large datasets from Kaggle and human sources using tokenization, embedding, and vectorization for model input.
- Achieved high validation accuracy by fine-tuning BERT on balanced text samples; evaluated with F1-score and confusion matrix.
- Developed the solution to support content authenticity initiatives and aid in misinformation detection efforts.

EXTRACURRICULAR ACTIVITIES

Social Media Team Lead – GeeksforGeeks Club, VIT Bhopal

2024–Present
- Led the social media efforts for the official GFG student chapter. Promoted events, managed Instagram content, and collaborated with content/design teams.
- Increased student participation and digital engagement through strategic posting and creative campaigns.

Business Owner – Handmade Crochet Brand on Instagram

Ongoing
- Sold over 200+ handmade crochet items via Instagram.
- Run and manage a brand page with 4,000+ followers, offering keyrings, accessories, and custom orders.
- Oversee product creation, pricing, content marketing, customer engagement, and shipping logistics.
- Boost visibility and build personal branding using reels, aesthetic packaging, and storytelling.

ACHIEVEMENTS

- Completed a technical writing internship at **GeeksforGeeks**, publishing over 10 in-depth technical articles on topics such as Data Structures, Algorithms, and Software Development (2023–2024).

EDUCATION

VIT Bhopal University, Bhopal   **2022 − 2026**
B.Tech. in Computer Science and Engineering   *CGPA: 8.57 / 10*

Academic Global School   **2021**
CBSE Board – Class XII   *Percentage: 90%*

St. Anthony's Convent School   **2019**
CBSE Board – Class X   *Percentage: 93.1%*