

# Hritwiza Gupta

Email: [erhritwizagupta13@gmail.com](mailto:erhritwizagupta13@gmail.com)

Linkedin : <https://www.linkedin.com/in/hritwizaguptakvp/>

Location: Panna, Madhya Pradesh, India

## Professional Summary

Innovative Computer Science Engineer with proven experience in AI/ML, Data Analysis, RPA, Big Data, Cloud Computing, and Software Development. Adept at designing intelligent solutions that optimize efficiency, automate workflows, and deliver actionable insights. Skilled in both frontend (React.js) and backend (Java, Node.js) development, with hands-on experience in IBM Watson AI, NLP, Deep Learning, and DevOps practices. Passionate about solving real-world challenges using cutting-edge technologies.

## Technical Skills

- **Programming Languages & Scripting** : Python, Java, SQL, JavaScript, PHP, Scala, Shell Scripting, MATLAB, HTML, CSS
- **Web Development & APIs** : React.js, Node.js, Express.js, REST APIs
- **Data Science & Analytics** : IBM Watson Studio, Power BI, Tableau, Excel (Pivot Tables, VBA), IBM Cognos Analytics, Data Visualization
- **Machine Learning & AI** : Predictive Modeling, Deep Learning (CNN, RNN), NLP, Speech Recognition, Computer Vision, IBM AutoAI
- **RPA & Automation** : Power Automate, VBA, Task Scheduler, AI Chatbots, Batch Files, Intelligent Process Automation
- **Big Data & Cloud** : Hadoop, Spark, Kafka, Hive, HBase, IBM Cloud, AWS, Azure
- **Database & DevOps** : SQL, MongoDB, MySQL, Firebase, Git, Docker, Kubernetes, CI/CD (GitLab, Bitbucket)
- **Systems & Networking** : Linux, Windows, TCP/IP, Network Protocols, Embedded Systems
- **Soft Skills** : Leadership, Analytical Thinking, Problem-Solving, Communication, Time Management, Documentation

## Education

- **B.Tech in Computer Science & Engineering** – Mody University (May 2025)
- **Diploma in Computer Science** – Govt. Polytechnic College, Panna (May 2022)
- **Higher Secondary** - NIOS (Oct 2021)
- **Secondary Education** – NIOS (Mar 2019)

## Work Experience

Intern | FLIMPA Milan Pvt Ltd (Remote) (Dec 2024 – Jan 2025)

- Developed a **React.js-based frontend** and a **Java-powered backend** for an **AI-driven Matrimony platform**.
- Integrated **email automation** and built a **Power BI dashboard** for performance analytics.

Trainee | Regex Software Services, Rajasthan (Jun 2024 – Sep 2024)

- Developed **CNN-based Face Expression Recognition** and **AI-powered speech-to-text models**.
- Implemented **real-world applications of Machine Learning and Computer Vision**.

Intern | Hindalco Industries Limited, Silvassa (Aug 2023)

- **Automated plant data workflows**, improving reporting speed and cutting manual efforts by **10+ hours/week**.
- Conducted **data analysis and visualization** using **SQL, Python, and Power BI** to identify operational inefficiencies.

## Languages

**English** – Full Professional Proficiency

**Hindi** – Native Proficiency

## Projects

- **AI-Powered HR Chatbot (Jan–Mar 2024):** Automated HR tasks using IBM Watson AI with NLP and cognitive services.
- **Cognitive Fraud Detection System (Jul–Sep 2024):** Built anomaly detection system using IBM Cloud AI.
- **Sales Forecasting with IBM AutoAI (Oct–Dec 2024):** Developed AI model for retail demand prediction, improving accuracy by 15%.
- **Millet Classification using CNN (Aug–Dec 2023):** Built AI model for crop identification with image classification.
- **Management Information System (Aug 2023):** Created MIS platform to streamline organizational data tracking.
- **Face Expression Recognition (Apr–May 2024):** Developed emotion recognition model for real-time analysis.
- **Automatic Speech Recognition (Aug–Dec 2024):** Deployed real-time speech-to-text engine using ML and audio processing.

## Certifications

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|---|-------------|
| • Programming in Java – Great Learning      | (Feb 2024)  |
| • Walmart USA Software Engineering – Forage | (Sept 2024) |
| • JP Morgan Chase Cybersecurity – Forage    | (Nov 2024)  |
| • Google Analytics Certification            | (Aug 2024)  |
| • IBM Artificial Intelligence Analyst       | (Nov 2024)  |

## Research Interests

- Explainable AI (XAI) and Ethics in AI Systems
- AI for Social Good: Healthcare, Agriculture & Education
- Human-Computer Interaction (HCI) and Voice Interfaces
- Scalable AI Systems using Microservices and Containers

## Volunteer Experience

- **Tech Mentor**, Mody University Women in Tech (2024): Mentored 30+ junior students on Python and AI basics.
- **Event Organizer**, CodeFest 2023: Led a team of 10 to host a 2-day coding competition with 200+ participants.