

# Riya Pandey

pandeyriya1603@gmail.com

+91-9793386616

## Education

### Rakiya Engineering College, Sonbhadra, UP

Bachelor of Technology in Electronics Engineering (8.33sgpa) 2021-2025

### D.A.V Public School, Robertsganj, Sonbhadra, UP

Intermediate (91.8%) 2019-2021

### St. Joseph's Convent High School, Robertsganj, Sonbhadra, UP

High School (94%) 2018-2019

## Internship

### Internship – Advanced Tech Energy Solutions

- Developed an approach to enhance signal transmission efficiency, reducing the Peak-to-Average Power Ratio in wireless communication systems.
- Implemented DCT-based Selective Mapping to enhance efficiency and minimize signal distortion.
- Conducted extensive simulations and analysis to validate the effectiveness of the proposed technique using MATLAB

## Projects

### Project 1: PAPR Reduction in OFDM using DCT Precoded SLM Technique

- Developed a method to reduce PAPR in wireless OFDM systems.
- Used DCT-based SLM to improve signal efficiency and reduce distortion.
- Validated the approach through MATLAB simulations and analysis.

### Project 2: Web Inventory Management App

- Tech Stack: Python, Flask, SQLite, HTML, CSS, Bootstrap, Jinja2, SQLAlchemy
- Built a role-based inventory management system using Flask.
- Implemented secure login, CRUD operations with separate dashboards for Admin (can add/edit/delete products) and Staff (view-only).

### Project 3: University Social Media App

- Tech Stack: Vue.js (CLI), Flask, SQLite, Flask-SQLAlchemy, Git, Postman
- App named UniConnect is a web-based social media platform for university students, built with Vue.js (CLI) and Flask.
- It enables secure registration, login, content sharing (notes, videos, ideas), peer messaging, group formation, and study sessions.

## Certifications

- VLSI for Beginners – Gained foundational knowledge of circuit design and semiconductor technology.
- Embedded for Beginners – Developed skills in microcontroller programming and system integration.
- What is Generative AI? – Explored AI models and their applications in automation and innovation.

## Extra-Curricular Activities

- Sports: Participated in school-level Volleyball Competitions, enhancing teamwork and strategic thinking.
- Essay Writing: Secured 2nd position in a school-level competition, demonstrating strong analytical & writing skills.
- Quiz Competitions: Won 1st place in a quiz competition, showcasing quick thinking and problem-solving abilities.

- Creative Competitions: Engaged in Banner & Slogan Writing Competitions, displaying creativity and awareness on societal topics.
- <https://github.com/Riya-Pandey16>
- [linkedin.com/in/riya-pandey](https://www.linkedin.com/in/riya-pandey)

### Technical Skills

- **Languages:** Python, C, JavaScript, HTML, CSS, SQL, MATLAB
- **Frameworks:** Node.js, React.js, flask, vue.js
- **Databases:** SQLite, SQLAlchemy, MongoDB
- **Tools:** git, MS Excel

Sonbhadra

Date:

Riya Pandey