# Abhay Singh Kushwah

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## Education

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| **RGPV University (Lakshmi Narain College Of Technology, Bhopal)** | *May 2025* |
| *Bachelor of Engineering in Information Technology* | *CGPA: 7.77/10* |
| **Central Academy School | Gwalior, Madhya Pradesh** | *May 2021* |
| *CBSE Class 12th* | *Percentage: 81.8* |
| **Army Public School | Gwalior, Madhya Pradesh** | *May 2019* |
| *CBSE Class 10th* | *Percentage: 78.2* |

## Experience

**Learning-based internship**

*IBM* — *Jul 2023 - Aug 2023*

- Learning-based internship on Artificial Intelligence, working on the 'Mental Fitness Tracker' project.
- Acquired skills in importing and organizing datasets, a fundamental step in AI and data analysis.
- Learned basic data examination techniques to uncover patterns and insights within datasets.
- Gained expertise in selecting relevant features from datasets, enhancing AI model accuracy.

## Skills

- **Programming:** C++, Python, DSA, HTML, OOPs Concepts
- **Libraries/Frameworks:** Pandas, NumPy, SQL, PYgame
- **Tools/Platforms:** Jupyter Notebook

## Projects

**Medical Data Extraction |** ◯

- Spearheaded the development of a healthcare document data extraction system, automating data retrieval from scanned records and prescriptions for streamlined insurance claims.
- Employed Pytesseract in combination with image processing techniques, and custom regex matching to ensure precise and accurate data extraction, even from documents of varying quality.
- Created a user-friendly FASTAPI-based frontend for hospitals and insurance companies to interact with and verify extracted data, improving document management and claims processing efficiency.

**Grocery store management |** ◯

- Developed a user-centric website for streamlined grocery management, targeting individual and business needs. Employed HTML, CSS, JavaScript, and Bootstrap for crafting an intuitive and easily navigable interface, enhancing user experience and interaction.
- Engineered a robust backend system using Python and Flask, ensuring efficient and reliable data processing. This development significantly contributed to the website's performance and user satisfaction.
- Architected and implemented a 3-tier system architecture, integrating MySQL for secure data storage. This design facilitated efficient management of grocery items and customer orders, while ensuring smooth interoperability between frontend, backend, and database layers.

**Hotel Domain Data Analysis |** ◯

- Analyzed hotel market data using Python and Pandas to identify causes of market share loss.
- Improved skills in data cleaning and transformation, ensuring accurate and reliable analysis.
- Enhanced understanding of data business impact, leading to actionable insights for market strategy.

**Voice Assistance |** ◯

- Developed "Jarvis," a Python-based intelligent voice assistant, with interactive and responsive command-driven actions, including accurate speech-to-text conversion for effective command interpretation.
- Enhanced Jarvis's user experience with pyttsx3 for natural voice responses and added web browsing functionality for seamless online task execution.
- Integrated advanced features in Jarvis, such as joke-telling using pyjokes and Efficient file & directory management using Python's OS module.

## EXTRA-CURRICULAR ACTIVITIES

- Representing Lakshmi Narayan College of Technology and securing 2nd place in Nodal Hockey demonstrates exceptional teamwork, skill, determination, and a proud moment for the college in the competitive sports arena.
- Participation in the ENGINEERINGOLYMPIC basketball event, organized by Lakshmi Narayan College of Technology, showcases talent, teamwork, and sportsmanship in a competitive academic setting.
- Secured 3rd in the under-17 state-level football competition, showcasing remarkable talent, teamwork, and perseverance among young athletes.
- Achieved 1st place in the under-19 district-level football competition, demonstrating exceptional skill, teamwork, and dedication among young, aspiring footballers.