

# Rajan Kumar

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## Experience and Projects

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### Research Internship – Computer Vision & Deep Learning

National Institute of Technology (NIT), Patna

(June 2025 – July 2025)

- Designed and trained a **Convolutional Neural Network (CNN)** for pneumonia classification using the **PneumoniaMNIST** medical imaging dataset.
- Applied **Explainable AI (XAI) techniques** to interpret model predictions and enhance transparency in medical image analysis.
- Leveraged **Google Colab** for experimentation and GPU acceleration, using **PyTorch, TensorFlow, NumPy, and Matplotlib** for data processing, model training, and performance evaluation.

### Research Internship- Natural Language Processing (NLP)

Invigo Infotech (AICTE Approved)

(Dec 2025 – Jan 2026)

- Gained hands-on experience in **Machine Learning concepts**, including data preprocessing, model training, and evaluation techniques.
- Implemented ML algorithms using **Python, NumPy, Pandas, Scikit-learn**, and visualized results for performance analysis.
- Successfully completed assessment with **93% score**, demonstrating strong problem-solving ability and technical proficiency.

### AI-Based Smart Career Guidance Web Portal (AI Career Coach)

Government Engineering College, Munger

(Team Project)

- Built a **full-stack AI-powered career guidance platform** that analyzes user skills and interests to provide **personalized career roadmaps**.
- Implemented key features like **ATS-optimized resume & cover letter generation, role-specific AI mock interviews, and progress tracking dashboard**.
- Developed using **Next.js, Tailwind CSS, Prisma ORM, PostgreSQL**, and integrated **Gemini AI API** for intelligent recommendations and content generation.

## Skills

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- **Programming:** Python, JavaScript, C/C++
- **Web Development:** HTML, CSS, JavaScript, React.js, Node.js, Express.js
- **Databases:** MongoDB, Firebase
- **Tools & Platforms:** Git, GitHub, VS Code, Chrome DevTools
- **Core Concepts:** Responsive Design, API Integration, Debugging
- **Languages:** English (Proficient), Hindi (Native)

## Education

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- **Bachelor of Technology (CSE - Artificial Intelligence)**

Government Engineering College, Munger

Bihar Engineering University

(2022–2026) — Pursuing

CGPA: 7.2 (current)

## Technical Certifications & Training

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- **AI Azure Internship** – Microsoft (Edunet Foundation) (May 2025 – Jun 2025)
- **Artificial Intelligence Fundamentals** – IBM SkillsBuild (Feb 2025)
- **Cybersecurity Virtual Internship** – Cisco Networking Academy (May – Jun 2024)

## Achievements & Responsibilities

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- **Gold Medal** – Science Exhibition, Inter-School Level
- **Event Coordinator** – Managed Intra-collage and Divisional-level Sports and Cultural Events end-to-end.