Rajnish Kumar

Computer Science & Engineering   Final Year (B. Tech)
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Examination	University	Institute	Year	CGPA
Graduation	BEU	DCE Darbhanga	2026	8.5

TECHNICAL SKILLS

- **Programming Languages**: C, C++, JavaScript, Python **| Version Control:** Git and GitHub
- **Development**: HTML5, CSS, Sass, PHP **| Machine Learning**: Pandas, NumPy, SciPy, PyTorch
- **Frameworks**: Bootstrap, SweetAlert2, jQuery **| API Integration**: REST API **| Database**: MySQL

KEY PROJECTS

1. ML-based Student Performance Predictor   *[Jun 2025 - Aug 2025]*

- Built an end-to-end ML model pipeline to predict student end-term performance using behavioral and academic features, achieving **~91% accuracy** and **0.89 AUC** score.
- Improved overall model accuracy by **18%** through **5-fold cross-validation**, hyperparameter tuning, and comparison across **4+ algorithms** for optimal performance

2. Movie Recommendation System   *[May 2025 - Jun 2025]*

- Built a movie recommendation system using **collaborative filtering** trained on **25,000+ user-movie ratings**, achieving **~0.82 RMSE and 0.80 MAE** after similarity optimization.
- Integrated the model into a **Streamlit web app** with **Top-10** personalized recommendations, reducing search effort by **~60%** through similarity-based ranking

3. AICTE 360° Feedback System   *[Aug 2024 – Dec 2024]*

- Developed a comprehensive 360-degree feedback system for college faculty evaluation based on **6 parameters** prescribed by **AICTE** with ranking via **ML** using a **100-credit** model
- Created a dynamic and interactive frontend using HTML**, CSS**, **Sass, jQuery, AJAX,** Swal and the backend with **PHP** and **Python**, managed data storage and analysis using **MySQL**

4. Attendance management website   *[Mar 2024 - May 2024]*

- Built a full-stack web portal enabling faculty to register, update student records, and manage real-time attendance with role-based access and dynamic admin dashboards
- Engineered the complete **system architecture**, including frontend interfaces and backend logic, ensuring data integrity and scalability using **HTML**, **Tailwind CSS, jQuery, AJAX, SweetAlert, PHP,** and **MySQL** to deliver a secure and seamless user experience.

CERTIFICATIONS/WORKSHOPS

- **CCNA: Switching, Routing, Security and Automation** - CISCO Networking Academy
- **Cyber security with ethical hacking workshop** – Workshop, **IIT Patna**
- **Python 3.4.3 and Advanced C++** - Spoken Tutorial Project, **IIT Bombay**
- **Fundamental of Python for Machine Learning** - iHUB Divya Sampark from **IIT Roorkee**
- **Salesforce Developer Virtual Internship** – Salesforce Platform

RESPONSIBILITY & EXTRA CURRICULAR ACTIVITIES

- Coordinator of **IoT club**   *[Since Apr, 2024]*
- Secured **1st position** in state level web development competition   *[Sep, 2024]*
- Secured **1st position** in district level quiz competition on red ribbon   *[Feb, 2023]*
- Secured **1st position** as **leader** in intra college Innovative India event   *[Jan, 2023]*