

KANISHK SINGHAL

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EDUCATION

- **Indian Institute of Technology(IIT) Patna** Patna, India
(B.Tech in Electrical & Electronics Engineering **CPI: 8.41**) Nov 2022 - May 2026 (Expected)

TECHNICAL SKILLS/RELEVANT COURSEWORK

- **Languages:** C, C++, Python, Javascript
- **Development:** Node.js, Express.js, React, TailwindCSS, HTML, CSS, Bootstrap, VS Code, GitHub, OpenCV, SQL, Scikit-Learn, TensorFlow, keras, Django, Streamlit
- **Clouds & Databases:** AWS, MongoDB
- **Relevant Courses:** Intro to Data Science(CS-244), Programming and Data Structures(CS-102), Probability and Random Processes(MA-225), Python Programming(CS-384), Digital Circuits & Microprocessor(EE-201)

PROJECTS

- **Resume Matcher** Source Code
Python, Scikit-learn, Flask, Bootstrap, HTML/CSS Jun 2024 - Jul 2024
 - Built and deployed a job description and resume matching system using **Python, Flask, and Scikit-learn**, training the model on **15 resumes** spanning multiple job roles, which led to a measurable improvement in matching accuracy.
 - Implemented automated **text extraction** from various resume formats (**PDF, DOCX, TXT**), processing up to **50 resumes** per session, and applied **TF-IDF vectorization** for text comparison, optimizing the system's matching performance.
 - Designed a responsive, user-friendly interface using **Bootstrap** for recruiters to input job descriptions and upload resumes, enabling **real-time** processing and display of **similarity scores** for top candidates.
- **Lang Vision** Source Code
Flask, Bootstrap, Langdetect, Google Translate API May 2024 - Jun 2024
 - Designed and built "**Lang Vision**," a web application using Flask to enable users to detect and translate text in up to **50 languages**, incorporating a clean and modern interface with **Bootstrap** for enhanced usability.
 - Developed and integrated **language detection and translation** functionalities using the **Langdetect** library and **Google Translate API**, ensuring accurate and efficient text processing and **multilingual support**.
 - Managed the entire development cycle of the application, from **frontend design to backend implementation**, improving user interaction and delivering a functional tool for **real-time** language translation and detection.
- **ShortyUrl** Source Code
URL shortener application Apr 2024 - May 2024
 - Engineered a fully functional application to manage and shorten URLs, using **React, TailwindCSS, Supabase, and Shadcn UI**, resulting in a seamless user experience with 100% successful user authentication.
 - Incorporated advanced features including **QR code** generation for each shortened URL and click tracking with detailed analytics on user interactions and geographic locations.
 - Optimized user experience by leveraging **real-time data insights**, providing comprehensive statistics on URL usage, and ensuring 99% uptime for secure link management.

ACCOMPLISHMENTS

- Secured a Gold medal (out of 22 IITs) at Inter IIT Tech Meet 12 in Jaguar Land Rover's high-prep problem statement, demonstrating effective and creative solutions. **Certificate**
- Achieved a **3 Star** rating on Codechef **kanishks281** with maximum rating of 1731.
- Attained **Specialist** rank on Codeforces **Blast4** with a peak rating of 1456.
- Earned a Global Rank of **350** among 2,200+ active participants in **Codechef** Starter 140 (Div-2).
- Secured a Global Rank of **119** among 4,000+ active participants in **Codechef** Starter 139 (Div-3).
- Secured a Global Rank of **2317** among 30,000+ active participants in **Codeforces** Round 924 (Div-2).
- Secured a Global Rank of **2523** among 24,500+ active participants in **Codeforces** Round 936 (Div-2).
- Qualified **RMO 2019**, demonstrating advanced mathematical and analytical abilities.

EXTRA-CURRICULAR ACTIVITIES

- **Coordinator & Sub-Coordinator(Celesta IIT Patna)** : Led sub-coordinators in web development and building a scalable fest website for 2000+ users, focusing on design, infrastructure, and risk management.
- **Sub-Coordinator(E-cell IIT Patna)** : Organized and led 2 events for 100+ juniors to promote entrepreneurship and developed the frontend of the E-Cell website with a focus on market-driven solutions.
- **Inter IIT Tech Team** : Worked with 8 team members on a complex problem, enhancing teamwork, communication, and analytical skills, resulting in a Gold medal among 22 IITs.