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.