

Chetan Pandey

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Education

- **Veer Madho Singh Bhandari, Uttarakhand Technical University** Dehradun, India
Bachelor of Technology in Computer Science · CGPA: 6.28 Aug, 2023 – Present
 - Awarded 3rd Place in [UTKARSH 1.0 Hackathon](#) & [Inovate or Evaporate Hackathon](#).
 - Relevant Coursework: Linear Algebra, Probability & Statistics, Data Structures & Algorithms, Machine Learning, Deep Learning, Artificial Intelligence.

Experience

- **Vinci**
Software Engineer Intern. Advisors: [Siddhant Singh](#) Feb, 2025 – Aug, 2025
 - Integrated generative AI models into the application pipeline using **ComfyUI** and **FastAPI**, enabling **model inference** and orchestration from the backend.
 - Designed and implemented **scalable backend services** and **database schemas** to support ML-driven features.
 - Developed a **computer vision-assisted video editor** for creating any form of content with more granular control. Improved **content creation efficiency** by **23%** over state-of-the-art prompt-based methods. ([Vinci Editor](#)).
- **AK Digital Services**
Software Engineer Intern. Advisors: [Alok Sinha](#) July, 2024 – Feb, 2025
 - Migrated and refactored web stacks to modern React and Node.js versions, improving **performance by 45%**.
 - Optimized **REST APIs** and **implemented backend logic** used for A/B feature experiments.

Programming Skills

- **Programming Languages:** Python (4+ years), JavaScript (2+ Years), SQL (2+ Years)
- **Platforms/Tools:** ComfyUI, Hugging Face, Jupyter, Google Colab, PowerBI (basic), MATLAB
- **ML/Data:** PyTorch, TensorFlow, scikit-learn, NumPy, Pandas, SciPy, OpenCV

Selected Projects

- **E-governance Management Platform:** Worked on a **Langchain** and **Computer Vision**-based platform for management, grievances, reports, and analysis. **AI-enabled** report creation, workload assignments, and review with analytical insights, data visualization tools, policy insight, and resolution suggestions. ([Code](#), [Demo Video](#))
- **Real-Time Traffic Analytics Tool:** Built a system that addresses the challenge of **real-time traffic analysis** by leveraging image processing and object detection. Created speed estimation, traffic law violation detection, and reporting to authorities. ([Code](#))
- **Open Source Contributions:**
 - **Webpack:** Fixed error overlay appearing despite React error boundaries. ([PR #5431](#))
 - Enhanced test stability by **improving port allocation** and reducing **flakiness** in CI environments. ([PR #5433](#))
 - Redesigned error overlay UI for better usability and visual hierarchy, providing insight for future component extraction. ([PR #5441](#))

Certifications & Courses

- **AWS Certified Cloud Practitioner**
Amazon Web Services Apr, 2025
- **CS50AI: Introduction to Artificial Intelligence with Python**
Harvard Sep, 2021

- **CS50: Introduction to Computer Science**
Harvard

Feb, 2021

- **Machine Learning & Deep Learning Multiple Courses**
Udemy / Wissenaire workshops

2020-2023

Position of Responsibility

- **ACM Student Chapter**
Secretary.

Aug, 2025 – Present

- Coordinated **technical** and **research-oriented events**, managed student outreach, and facilitated workshops on AI, data science, and cyberspace to promote research culture on campus.

- **National Cadet Corps (NCC)**
Senior Division Cadet.

Aug, 2023 – Present

- Attended the **Advanced Leadership Camp**, on October 2025.
- Represented the **college unit** and participated in **leadership and discipline-based training** and community service programs.

Research-Relevant Strengths

- **Experimental mindset:** Experience running model comparisons and reproducible experiments.
- **Math foundations:** Exposure to linear algebra, probability, and statistics for ML model design.
- **Coding for research:** Proficient in rapid prototyping and production-grade model deployment.