

Pranshu Jain

✉ pranshujain0111@gmail.com | 🌐 Pranshu321 | in Pranshu | 📞 +91-9711265266 | ☆ Portfolio

WORK EXPERIENCE

AMD Hyderabad, India

Co-op Intern

July 2025 - Present

- Delivered an AI-driven test automation agent that cut manual QA effort by **30%** while increasing **edge-case defect** detection by **10%**.
- Drove reliability and performance improvements across ROCm ML frameworks, **including hipDNN** and flash-attention, optimizing kernels and validation for scalable **AMD GPU workloads**.

IIT Madras | Chennai, India

Research Intern

May 2025 - July 2025

- Designed a persona-driven **AI Safety Framework (EduBench)** integrating technical rigor with global policy standards, enhancing **context-aware governance** across 9 educational risk domains.
- Improved framework **robustness by 28%** and **safety evaluation accuracy by 20%** via multi-model testing, integrating **personalized harm perspectives** for diverse user personas.

Fellowship.ai | Remote

Data Science Fellow

Sep 2024 - Dec 2024

- Analyzed complex datasets using Causica and DoWhy to uncover critical cause-effect relationships, leading to a robust treatment effect analysis that informed strategic decisions by **enhancing decision quality by 25%**.
- Optimized models **using refuter methods**, reducing **runtime by 12%** and enhancing application efficiency by 10%.

OPEN SOURCE

Code for GovTech | Delhi, India

Open Source Developer

July 2023 - Sep 2023

- Reduced development and configuration time of dynamic filters by **30%** through the creation of an **NPM package** for the Sunbird ED-Search widget, now serving over **1cr+ users on the DIKSHA portal**.
- Developed an Algolia Instantsearch-style component, enabling dynamic filters and interactive result presentation and improving search efficiency.

EDUCATION

National Institute Of Technology, Calicut

M.Tech in CSE (Artificial Intelligence & Data Analytics)

Aug 2024 – Present | Kerala, India | CGPA: 9.74 / 10

Guru Gobind Singh Indraprastha University

B.Tech in Computer Science and Engineering

July 2024 | Delhi, India | CGPA : 9.43 / 10

SKILLS

- Languages:** C/C++, JavaScript, Typescript, Cloud Functions, GraphQL, Python, R, Prolog
- Frameworks:** Next.js, Pandas, Tensorflow, Numpy, Node.js, HIP
- Tools:** Git/GitHub, Langchain, Streamlit, Docker, Power BI
- Specializations :** Deep Learning, NLP, Causal Inference, Data Analytics, Explainable AI, Agentic Development

PROJECTS

Cognitron Feb - Apr 2025

- Developed a two-stage **EEG-to-image pipeline** aligning EEG embeddings with BLIP caption embeddings using **contrastive and MSE losses** for semantic consistency.
- Generated captions from EEG via a **fine-tuned BART decoder** and produced high-fidelity images by injecting EEG embeddings into Stable Diffusion **v1-5 for zero-shot** "thought-to-image" synthesis.

RetailCausal Sep - Dec 2024

- Leveraging **causal inference tools** and technologies for analyzing and optimizing retail operations, such as pricing and inventory management.
- Utilizing **Causica, DoWhy, and treatment effect analysis** to identify key cause-effect relationships and measure the **impact of treatment variables**.

IndLegal Oct - Nov 2024

- Leveraging **advanced NLP techniques** for analyzing and summarizing legal texts, such as **laws, case studies, and judicial decisions**.
- Creating a **unique mapping between IPC and BNS, this system not available till now**, to incorporate changes in laws, punishments, and provisions.

RESEARCH PAPER

Enhancing Academic Resource Evaluation In CSE Through Automated Assessment

RNN base academic content evaluator for efficient assessment

LINKS

- Codechef: **pranshu32** (maxRating: 1806)
- Leetcode: **pranshujain0111**
- Medium: **PranshuJain**
- GFG: **pranshujain0111** (19th Institute Rank)

ACHIEVEMENTS

- 115th position** at **TCS Codevita Season 13**
- Global Rank **500/75000+** in SnackDown by Codechef.
- Rank 1** in **CodeKaze** in Institute.
- 2nd Runner's up** at **HackNITR Hackathon**.
- 3rd position** in **Hack the mountains 3.0**.
- 3rd position** **Hack36.6** hackathon by **NIT Allahabad**.
- Technical Reviewer** for the book **"Node.js for Beginners"** for Packt, the **UK's largest publication house**.