

PRANSHU

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LinkedIn - Pranshu Singh

SUMMARY

Data-driven researcher with expertise in quantitative analysis, data science, and applied machine learning. Skilled in designing research-oriented projects, handling large datasets, and applying statistical methods to generate insights for decision-making. Experienced in combining rigorous data analysis with software engineering to deliver end-to-end research applications. Passionate about leveraging data and technology for societal impact, innovation studies, and evidence-based policy analysis.

EDUCATION

Vijaybhoomi School of Science and Technology 2022 - 2026
Bachelor of Technology in Artificial Intelligence — CGPA: 8.49 Greater Mumbai, Maharashtra

TECHNICAL SKILLS

- Quantitative Research & Methods:** Hypothesis Testing, Statistical Modeling, Predictive Analytics, Experimental Design
- Data Science & Analytics:** Python, R, SQL, Scikit-learn, Pandas, NumPy, Tableau, Matplotlib, Seaborn
- Machine Learning & AI:** Deep Learning, NLP, Computer Vision, Generative AI (GPT, DALL·E, Hugging Face)
- Software Engineering Tools:** Flask, FastAPI, Streamlit, Docker, Git, Flutter
- Data Engineering:** Web Scraping, Data Cleaning, Pipeline Development, Dashboarding
- Soft Skills:** Research Communication, Attention to Detail, Team Collaboration, Time Management

WORK EXPERIENCE

Software Development – Beam Welly

Remote - April 2025 - Sep 2025

6 Months

- I am directly working under companies CEO
- Entered and managed large sets of data for software development.
- Maintained structured data for model training.
- Ensured accurate handling of files and data logs.

AI Development - Skillopedia

Remote - June 2025 - Nov 2025

6 Months

- AI Engineer with hands-on experience in Python, LangChain, n8n, and prompt engineering, building scalable AI agents and chatbot systems.
- Skilled in designing workflows that integrate LLMs with APIs, automation tools, and external data sources for real-world applications.
- AI-based data analysis and insight generation
- AI applications for storybook and content creation
- Voice-based AI agents for conversational use cases and scheduling the interviews

Data scraping - DSJ Keep learning Ltd

Remote - Nov 2024 - May 2025

6 months

Extracted the information of **1000+** Indian college contacts using Python, BeautifulSoup, and pandas with robust parsing and state-wise progress tracking.

Data Analyst and software Engineer - Axlerator

Hybrid - Present

- I am working with people from top IITs of India
- I am analysing the data, providing them with the trends what all are the changes we can make after predicting the data
- I am also developing app and website over here
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Vice President Sports - Present

- Maintained records of players, teams, and event details.
- Organized a college sports fest "Ranboomi" with **18+** team members.
- I have campaigned for the girls' education and have actively encouraged their involvement in diverse sports activities during a campaign named as **Kanyathon**. Working as a team member in a sports committee
- I was the lead person in the **Jambrung Fest** which is a biggest cultural fest of my college

RESEARCH & PROJECT EXPERIENCE:-

Atom time span prediction| Python, NLP|Research Paper

- Worked on a research paper focused on predicting atomic time-span behavior.
- Applied computational modeling and time-series analysis techniques.
- Used Python-based tools for data analysis, simulation, and validation.

Ai Agents

- Developed an AI agent to automate Gmail replies and generate professional email drafts by understanding email context, intent, and sentiment.
- Built a LinkedIn post reply AI agent that analyzes post content and produces relevant, engaging, and human-like responses for networking.
- Implemented using Python, FastAPI, LLMs, APIs, and prompt engineering for real-world communication automation.

AI Storybook Generator | Python, Flask, GPT-4, DALL-E

- Developed a full-stack web app that creates personalised children's storybooks (ages 1-12) with dynamic GPT-4 storytelling and AI-generated illustrations.
- Implemented customisable art styles (anime, watercolour, realistic) and support for multiple reading levels, boosting user engagement.
- Integrated photo-to-character conversion to transform user photos into illustrated characters.

Platform to build AI Agents | React/Next.js, Javascript

- Built and shipped a full-stack platform end-to-end with CI/CD and monitoring.
- Designed scalable APIs with clean domains, tests, and performance tuning.
- Delivered a modern, accessible UX/UI with responsive layouts and smooth flows
- This platform is just like n8n, sim and other platforms which give us to build ai agents

Vision-to-Speech Assistant for the Visually Impaired | CV, Deep Learning

- Built a real-time scene-narration system using YOLOv8, DeepFace, MediaPipe, and Transformers to detect objects, emotions, human poses, and generate scene captions.
- Enabled offline voice narration via pyttsx3, updating audio descriptions only when the visual context changes, improving usability and reducing repetition.
- Demonstrated a practical AI solution for social impact, helping blind users understand and navigate their surroundings.

Large-Scale Data Scraping of Indian Colleges | Python, BeautifulSoup, Pandas

- In this project I have worked under the top industrialist who was guiding me while I was doing this project
- Extracted and cleaned contact data for all colleges in India from IndCareer.com using Python, Beautiful Soup, and regex.
- Built a web scraping pipeline to automate data collection with robust HTML parsing and validation logic.
- Captured **1000+** emails and phone numbers, storing structured outputs with pandas for further analysis.
- Enabled state-wise scraping automation with progress tracking using tqdm, ensuring efficient data retrieval.

RELEVANT COURSEWORK

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| • Data Structures | • Probability & Statistics | • Machine Learning |
| • Data Analysis | • Tableau | • Computer Vision |
| • App Development | • Technical Architect | • Market and Product Research |

ACCOMPLISHMENTS

- 1st Place: Inter-University **4x100m** Relay
- National Athlete (CBSE Cluster – **2 Gold Medals**)
- Top **10** in IIT Roorkee Hackathon
- Finalist – IIT Bombay Fest
- **4th** Rank – Technex Hackathon, IIT BHU

CERTIFICATION

- Python for Data Science
- Intermediate Excel
- Tableau
- SQL