

Vijay Samant

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INTERESTS

Full-Stack Development, Artificial Intelligence, Machine Learning, Large Language Models, Natural Language Processing, Database Engineering, Data Analyst

EXPERIENCE

- **GirlScript Foundation** June 2024 - Aug 2024
Open Source Developer Remote
 - Recognized as Top Contributor out of 10,000+ participants in the GirlScript Summer of Code 2024
 - Contributed to 15+ open-source repositories, focusing on frontend development, JavaScript, and Python.
 - Earned a certificate for outstanding performance and consistent contributions.
- **Laws Forum** Feb 2025 - Present
Back-end, database management, Machine Learning Delhi, India
 - Pre-processed and cleaned large datasets of legal texts, ensuring data quality for effective training and fine-tuning of the model.
 - Developed and deployed a BERT model to analyze Indian legal documents, focusing on tasks such as text summarization, entity recognition, and legal question answering.
 - Implemented the model using the Python and Hugging Face's Transformers library, optimizing performance with custom fine-tuning strategies tailored for legal language.

EDUCATION

- **Cluster Innovation Center, University of Delhi** Aug 2023 - June 2027
Bachelor of Technology in IT and Mathematics with 8.18/10 GPA Delhi, India
 - Related courses: Discrete Maths, Object Oriented Programming, Data Structures and Algorithms, Database Management, Probability and Statistics
- **Sainik School Ghorakhal** April 2023
Secondary Education with 86% Nainital, India
 - English, Mathematics, Physics, Chemistry, Computer Science

PROJECTS

- **Firefox Extension: Created Firefox add-ons** Sep 2024 - Present
Tools: HTML, CSS, JavaScript, Firefox's extension APIs
 - 5 Firefox add-ons to enhance browser functionality, focusing on user experience and performance optimization.
 - Implemented features like content manipulation, and UI enhancements, to improve user workflows.
 - Received positive feedback from 50 users for ease of use, functionality, and responsiveness.
 - Received an average rating of 4.9 out of 5
- **Image Compression using Singular Value Decomposition (SVD) in MATLAB** April 2024 - May 2024
Tools: MATLAB, Python
 - Developed an interactive MATLAB app with a user-friendly interface, enabling users to dynamically adjust compression
 - Implemented SVD-based image compression that reduces file size by approximately 37%, while preserving image quality and optimizing storage efficiency.
- **Line Follower Bot for Meshmerize Event, Techfest at IIT Bombay** Sep 2023 - Oct 2023
Tools: Arduino, Algorithms, Robot Design
 - Led a team of four to learn and apply embedded systems, motor control, and sensor integration, gaining hands-on experience in robotics and automation.
 - Built a functional line-following bot from scratch, successfully completing track navigation in the competition despite being first-time robotics developers.

SKILLS

- **Programming Languages:** C, Java, JavaScript, Python, SQL
- **Web Technologies:** Flask, HTML5, CSS3, JavaScript, Node.js
- **Database Systems:** SQLite, MySQL
- **Data Science & Machine Learning:** Pandas, NumPy, Scikit-learn, TensorFlow, Matplotlib
- **DevOps & Version Control:** Docker, Git, GitHub
- **Mathematical & Statistical Tools:** MATLAB, R, Wolfram Mathematica, Excel (Advanced)
- **Other Tools & Technologies:** VS Code, Jupyter Notebooks, Postman
- **Research Skills:** Data Collection, Data Cleaning, Model Development, Literature Review

VOLUNTEER EXPERIENCE

- **Volunteer under Unnat Bharat Abhiyan** Oct 2024 - Present
Skills: Social entrepreneurship, teaching, curriculum design, project planning, communication, leadership
 - Identified gaps and supplemented educational needs of young students
 - Social entrepreneurship, teaching, curriculum design, project planning, communication, leadership
- **Event Coordinator of Autonomi Robotics Event, at college Fest** March 2024 - March 2024
Skills: Event Planning & Coordination, Team Collaboration, Arduino Development
 - Contributed to the successful planning and execution of 4 different robotics competitions, collaborating with a team of 20 volunteers.
 - Assisted in managing event logistics, like registration, equipment setup, and scheduling of more than 30 teams.
 - Assisted in promoting the event, leading to an increase in participation by about 25-30%.

CERTIFICATIONS

- **CS50: CS50x** Dec 2024
- **GirlScript Foundation: GSSoC2024 Top Contributor** Aug 2024
- **Postman: Postman API Fundamentals Student Expert** July 2024

ADDITIONAL INFORMATION

Languages: Hindi (Native), English (Bilingual Proficiency)
Achievements: Achieved 100%ile in English in CUET 2023