Sanjana Pandey

Delhi,India
Software Developer

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GitHub Profile
LinkedIn Profile

Technical Skills

Languages: C, C++, Java, Python, JavaScript (programming languages)

Frameworks: HTML, CSS, Bootstrap, Tailwind CSS, React.js, Node.js, Express.js, PyTorch,React Native

Databases: MySQL, PostgreSQL, Relational databases

Concepts: Data Structures, Algorithms, Object-Oriented Programming, Operating Systems, Machine Learning, Artificial Intelligence,Software Engineering, Computer Networks,Database Management System,Software Development Life Cycle (SDLC)

Work Experience

Eastman Power Technologies Pvt. Ltd. *Jul 2025*
Software Engineering Intern Delhi, India

- Developed backend systems, reducing API latency by 35% by using scalable technology solutions.
- Collaborated with the R&D team in a cooperative environment to solve complex problems , boosting internal system efficiency by 20%.
- Developed an Android application using Bluetooth Low Energy (BLE) technology with creative UI designs to enable efficient device communication and real-time data transfer.
- Collaborated with 2+ Product Managers and stakeholders to understand user needs and define product requirements for the BLE application.
- **Technologies used**: Node.js, Express.js, React.js, PostgreSQL, REST APIs, Git,React Native,Android Developement

GirlScript Summer of Code *Oct – Dec 2024*
Open Source Contributor & Campus Ambassador Remote

- Applied engineering principles with a growth mindset to solve problems related to product quality and contributed code improvements across 3 open-source products.
- Contributed to 5+ open source repositories and participated in mentorship discussions, providing technical guidance to new contributors while demonstrating effective time management in a collaborative development environment.
- **Technologies Used:** C++, DSA, HTML, CSS, JavaScript

Education

Bachelor of Technology in Computer Science and Engineering (AI and ML) *2023–27*
Guru Gobind Singh Indraprastha University, Delhi CGPA: 8.4

Projects

Diabetes Prediction using Generative Adversarial Networks (GANs) *Apr 2025*

A GANs-based diabetes prediction model using synthetic dataset generation, improving classifier accuracy by 40%.

- Utilized GANs to generate synthetic data, enhancing class balance and improving classifier performance by 40%.
- Achieved 97% accuracy using a combination of machine learning and deep learning models, maintaining accountability throughout model development and evaluation.
- Published a research paper on GAN-augmented diabetes prediction, highlighting significant accuracy gains through synthetic augmentation.
- **Technologies Used:** PyTorch, Scikit-learn, GANs, NumPy; **Algorithms:** Bagging, Boosting, Decision Tree, SVM, GNN (GNN achieved highest accuracy of 97%).

Optimal Route Planner *Nov 2024*

A DSA-based system designed to guide users in discovering the most optimal routes using real-time pathfinding methods.

- Utilized Dijkstra's algorithm and Object Oriented Design to compute optimal routes with an average latency reduction of 40%, ensuring reliability while working in a cooperative team environment.
- Collaborated with team members to ensure product quality, incorporating user needs into model design decisions.
- **Concepts Used:** C++, OOP, Dijkstra's, Bellman-Ford, Git, GitHub

Achievements & Certifications

- **Competitive Programming Milestones** *July 2025*
  – Ranked among top 5% in a LeetCode contest and secured Rank 1 on Coding Ninjas college leaderboard, reflecting strong problem-solving and algorithmic skills.
- **Deloitte Australia · Virtual Internship** *June 2025*
  – Delivered automation-focused solutions aligned with requirements, gaining exposure to building automation.
- **Goldman Sachs · Virtual Internship** *Feb 2025*
  – Built a Python & develop software tool for encryption flaw testing and performed code-level troubleshooting.
- **IIT Delhi** *Feb 2025*
  – Optimized AI models using NLP and information retrieval techniques to meet user-specific goals and integrate into scalable software systems.
- **Cisco · Cybersecurity Fundamentals** *Jan 2025*
  – Completed a cybersecurity program focused on networks, with emphasis on professional development.