

Shefali Jain

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LinkedIn GitHub

EDUCATION

Vellore Institute Of Technology
Bachelor in Computer Science and Engineering

July 2021 – July 2025
CGPA: 8.82

Maharshi Vidya Mandir, CBSE Board
CBSE (12th Board)

March 2019 – May 2020
CGPA: 8.19

TECHNICAL SKILLS

- **Core Areas:** Data Analysis, Machine Learning, Statistical Modeling, Data Visualization, SDLC, Cloud Infrastructure, CI/CD*, Agile Methodology*.
- **Technical Knowledge:** Probability & Statistics, Data Preprocessing, Feature Engineering, Data Structures and Algorithms, Operating Systems, Database Management Systems.
- **Languages and Frameworks:** Python (Pandas, NumPy, scikit-learn, TensorFlow), R, SQL, Java, Linux*.
- **Tools and Technologies:** Jupyter Notebook, Tableau, Git, Docker, AWS (S3 & EC2), MongoDB.

EXPERIENCE

Sai Instrument Services
Full Stack Developer Intern — Remote

January 2025 – Present

- Engineered React dashboard with real-time analytics, improving HR decision-making efficiency for 120+ monthly active users.
- Automated 90% of recruitment communications via Node.js integration with Gmail API and Calendar services.
- Minimized deployment failures by 65% through designing GitHub Actions workflows and Docker-based CI/CD automation.

Salesforce (Forage Virtual Program)
Developer Intern — Remote

October 2024 – December 2024

- Built customer management solutions handling 1k+ daily transactions using Apex triggers and Lightning Web Components.
- Strengthened data security protocols through role-based access controls and field-level encryption, ensuring PII confidentiality.
- Devised modular validation logic that reduced redundant code by 30% across multiple Salesforce components.

PROJECTS

Accent Translation NLP Model
Technologies: Python, TensorFlow, Seq2Seq, Vectorization, MLE Spectrogram

March 2025

- Orchestrated a sequence-to-sequence neural pipeline to transcribe and transform American English audio into Indian English, boosting pronunciation fidelity by 20%.
- Synthesized spectrogram-based feature sets using MLE optimization to capture phonetic nuances across dialects.
- Optimized audio preprocessing workflows with noise reduction and normalization for sub-second inference latency.
- Exposed the translation model via a scalable REST API, handling concurrent real-time requests seamlessly.

Farm Friend Crop Health Analyzer
Technologies: Python, TensorFlow, OpenCV, Keras

April 2025

- Conceived and trained deep convolutional networks to identify crop species and diagnose health statuses with 92% accuracy.
- Applied OpenCV-driven preprocessing—denoising, segmentation, and normalization—to enhance input image quality.
- Refined model performance through hyperparameter tuning and data augmentation, improving robustness across five crop categories.
- Packaged the solution into an intuitive web application, empowering farmers with instant crop health reports.

CERTIFICATIONS

- AWS Certified Cloud Practitioner: Demonstrates foundational cloud proficiency and AWS expertise.
- MERN Full Stack Internship, Ethnus: Hands-on experience in modern web development.

ACHIEVEMENTS

- Solved 250+ coding challenges across LeetCode, GeeksforGeeks, and HackerRank, demonstrating fluency in algorithms and coding patterns.