

# Alex Varghese

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## OBJECTIVE

Aspiring Software Engineer with strong technical and leadership skills, seeking opportunities to leverage my expertise in AI, ML, and development for impactful projects.

## EDUCATION

<b>B.Tech, Computer Science &amp; Engineering</b> Bharati Vidyapeeth College of Engineering, Delhi	Expected 2026
<b>Senior Secondary (XII), Science</b> Kendriya Vidyalaya Janakpuri (CBSE) - Percentage: 88.20%	2021-2022
<b>Senior Secondary (X)</b> Kendriya Vidyalaya Janakpuri (CBSE) - Percentage: 87%	2019-2020

## INTERNSHIP AND WORK EXPERIENCE

<b>Website Development Intern, Dave Surgical Company</b> • Designed and developed the company website using Wix, creating a user-friendly and visually appealing interface.	August 2023
<b>AI and ML Training Program at BVCOE</b> • Acquired practical expertise in Python libraries for AI, ML, and DL model development. • Conducted hands-on projects showcasing deep learning techniques for predictive analytics.	July 2024 – August 2024
<b>Entrepreneurship Skill Development Programme in AI &amp; ML, MSME</b> • Focused on leveraging AI and ML to innovate and solve real-world business challenges. • Collaborated on projects targeting scalable AI-based solutions for micro-enterprises.	July 2024 – August 2024

## PROJECTS

<b>CycleGAN for Emotional Voice Conversion</b> <i>Kaggle: <a href="#">Emotional Voice Conversion</a></i> Proposed a CycleGAN model to transform neutral to sad speech and vice versa, preserving speaker identity. Trained with adversarial, cycle-consistency, and spectral normalization losses, achieving high-quality emotional tone synthesis on a custom dataset.	September 2024
<b>WaveGAN Model for Voice Cloning</b> <i>GitHub: <a href="#">WaveGAN Custom Dataset</a></i> Implemented a Generative Adversarial Network (GAN) model for voice cloning, successfully mimicking original tones for realistic audio reproduction.	August 2024
<b>MuRIL Model for Hate Speech Detection</b> <i>Kaggle: <a href="#">Hate Speech Detection</a></i> Utilized the MuRIL model to detect and classify hate speech in Hindi, ensuring effective language-contextual NLP solutions.	July 2024
<b>Stock Learnings – Financial Knowledge Platform</b> <i>GitHub: <a href="#">Stock Learnings</a></i> Developed an interactive web platform for financial education, incorporating simulations and intuitive learning experiences.	March 2024

## SKILLS

<b>Programming Languages</b>	Python (NumPy, Pandas, Transformers, PyTorch), JavaScript (Intermediate)
<b>AI/ML Expertise</b>	Neural Networks, Computer Vision, GANs, Transformers & LLM Fine-Tuning
<b>Software &amp; Tools</b>	Kaggle, Google Colab, Intel AI PCs, VS Code
<b>Soft Skills</b>	Communication, Leadership, Teamwork, Speaking, Problem-Solving

## ACHIEVEMENTS

- First Position, Best Project Award - Summer Training 2024
- Second Position, Intel Student Ambassador Hackathon Fall 2024
- Intel Digital Readiness Program (AI,ML & DL using Python) (End to End Speech Cloning) - August 2024

## POSITION OF RESPONSIBILITY

- Intel Student Ambassador, actively promoting AI innovation and collaboration.
- Executive Member, GeeksforGeeks (GFG) Chapter
- Executive Member, BVP Inc Society.