

ANJALI DESAI

+91-9108183427 • anjali.desai0111@gmail.com • linkedin.com/in/anjali-desai • github.com/anjaliid • anjaliid.github.io/Anjali-Desai-Portfolio

SUMMARY

High school student with experience in research in AI and computer science. Published research paper in International Journal of Scientific Research (air quality forecasting) and whitepaper on multimodal breast cancer risk prediction. Strong academic background (97% in 9th, 97% in 10th) with international recognition: AMO Global Rank 29, UCO national topper. Treasurer for AETHRA (raised \$17,000+ in prizes), Tech Lead for Shakti Society, Vice-Director of Digital Innovation.

EDUCATION

Physics, Chemistry, Mathematics, Computer Science (CBSE) Graduating 2027
National Hill View Public School, Bangalore, India 9th: 97%, 10th: 97%

Relevant coursework: Mathematics, Physics, Chemistry, Artificial Intelligence, Computer Science, Programming (Java, C++, Python)

TECHNICAL SKILLS

Programming Languages: Python, Java, C++, HTML/CSS, JavaScript

AI/ML Frameworks & Tools: PyTorch, TensorFlow, scikit-learn, Keras, Pandas, NumPy, Matplotlib, Seaborn

Development Tools: GitHub, Google Colab, Jupyter Notebook, Streamlit, VS Code

Certifications: Brown University AI/ML & Data Science (98%), IIT Madras AI Course (8 weeks), PCEP (Python Certified Entry-Level Programmer), Java Specialization (Codio), Python (Google), C++ Specialization (Codio)

Research Areas: Deep Learning, Computer Vision, Medical AI, Time Series Forecasting, Multimodal Learning

LEADERSHIP AND TECHNOLOGY INITIATIVES

Vice-Director of Digital Innovation, National Hill View Public School, May 2025 – Present

- Leading school-wide AI integration initiatives and spearheading launch of AI-focused club with workshops and competitions.
- Mentoring junior students in Python, HTML, and AI basics.

Treasurer – AETHRA, Student-led Tech Organisation, June 2025 – Present

- Raised over \$17,000 worth of prizes across 6 global online events as organization treasurer.
- Organize hackathons and digital literacy workshops for student community.

Tech Lead – Shakti Society, Women’s empowerment and safety initiative, June 2025 – Present

- Developed and maintain full-stack website featuring event management, resource library, and social media integration.
- Lead technology strategy for organization’s digital presence and online programs.

RESEARCH & PUBLICATIONS

AI-Augmented Multimodal Risk Prediction of Breast Cancer, Published 2025

- Developed multimodal framework integrating polygenic scores, lifestyle data, and temporal EMR modeling for breast cancer risk prediction.
- Available at: [OneYoungIndia Whitepaper](#)

AI-Based Air Quality Index (AQI) Forecasting in Bengaluru Using GRU Models, Published 2025

- Developed GRU-based neural networks for temporal air pollution forecasting; demonstrated significant improvement over traditional models.
- Published in IJSR, June 2025; also featured on OneYoungIndia platform.
- Available at: [IJSR Publication](#)

Multimodal Deep Learning for Breast Cancer Subtype Classification,

July 2024 – October 2024

- Developed multimodal framework integrating histopathology images and biomarker data to classify four breast cancer subtypes.
- Achieved 87% relative improvement in macro-F1 score (0.678 vs 0.363 baseline); tested ResNet18, ResNet50, and DINO Vision Transformer configurations.

ACADEMIC AND RESEARCH EXPERIENCE

IIT Madras AI Course,

8 weeks

- Completed 8-week intensive AI course covering foundational and advanced AI/ML concepts.

Brown University Pre-College AI, ML, and Data Science Program,

Summer 2024

- Completed intensive program with 98% final grade; led team of four in developing stock market prediction model.
- Achieved over 86% directional accuracy in backtesting using supervised learning and time series analysis.

AGSD (ALLEN Global Studies Division) AI Bootcamp,

August 2024 – November 2024

- Completed 12-week bootcamp focused on AI, ML, and Python programming with weekly coding challenges.
- Received mentorship on breast cancer classification research project.

ACHIEVEMENTS AND RECOGNITION

American Mathematics Olympiad (AMO), Global,

2024

- Global Rank: 29, Country Rank: 6, Global Finals Rank: 14

Unified Cyber Olympiad (UCO), India,

Multiple Years

- Achieved 1st and 2nd place national rankings across multiple years in computer science and cybersecurity olympiad.

Global Essay and Music Awards (GEMA), National,

2023

- Won national short story competition; winning story published as prize.

Standardized Testing,

2024

- SAT Score: 1560 (English: 780, Math: 780)

COMMUNITY SERVICE AND VOLUNTEERING

Child Rights and You (CRY) Foundation, Bangalore,

2023 – Present

- Contributed over 60 hours per semester teaching cybersecurity awareness, digital literacy, and online safety to underprivileged students.
- Led volunteer teams during community events including Walk to EmpowHER walkathon.

CREATIVE AND ARTISTIC PURSUITS

Creative Writing – Blog and Kindle eBook,

2023 – Present

- Publish original fiction twice monthly; won GEMA national short story competition and multiple inter-school awards.
- Built readership through [blog](#) and published Kindle e-book.

Music Performance – Dhuniscian,

Ongoing

- Three years of training in guitar and keyboard; proficient in classical and contemporary styles.
- Trinity College London Music Certifications: Grades 1-4 (Outstanding), Grade 5 ongoing.
- Active performer at school events and band performances.
- [YouTube channel](#) showcasing music compositions and covers.