

# TURPU SAANDEEP SAI

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## EDUCATION

- **Sri Indu College of Engineering and Technology** 2023 – Present  
*B.Tech in Computer Science* *CPI: 8.8 / 10*
- **SarasAi Institute** 2025 – Present  
*Associate of Science in Artificial Intelligence* *2-Year Program*
- **Space Junior College** 2021 – 2023  
*XII (State Board)* *Score: 93.9%*
- **SR Digi School** 2020 – 2021  
*X (SSC)* *Score: 95%*

## SKILLS

**Languages:** Python, C, Java, JavaScript, TypeScript, HTML, CSS

**Frameworks & Libraries:** Django, React, Next.js, Tailwind CSS, Firebase, OpenCV, Pandas, NumPy, Matplotlib, Seaborn

**AI/ML & Data Science:** TTS/STT (Tacotron, VITS, XTTS, Coqui TTS), NLP, OpenCV, TensorFlow, scikit-learn, Generative AI (music, video, audiobook, tutors)

**Databases & Cloud:** MongoDB, Firebase Realtime DB, Firestore, AWS (S3, EC2, CloudWatch), Azure, GCP, Vercel, Netlify

**Tools & Practices:** Git, GitHub, REST APIs, Web APIs, Manim (educational animations), SDLC, UML, CI/CD basics

## PROJECTS

### AI & Web Applications

- **Item Retriever – Lost-&Found Tool**  
*Live: [item-retriever.vercel.app](#)*  
React + Firebase app with image upload, location tagging, and real-time listing.
- **Face Locker – Facial Recognition Access**  
*Live: [face-locker.vercel.app](#)*  
Built facial recognition login using face-api.js and React. Deployed on Vercel.
- **Startup Connect – Founder Networking Platform**  
*Live: [startup-connect-nu.vercel.app](#)*  
Next.js platform with authentication and dynamic routes for founder networking.

### Python Applications

- **Bingo Game – Terminal-Based Application**  
*GitHub: [github.com/Saandeep-Sai/Bingo-Game](#)*  
Interactive CLI Bingo game in Python with randomization, win detection, and clean interface.

### Advanced AI & Research Projects

- **Voice Cloning Application (Coqui TTS)**  
  
Trained deep learning models (YourTTS, Tacotron, VITS, XTTS) to replicate human voice using short audio samples. Tools: Python, Coqui TTS.
- **Anurag Hackathon Project**  
  
Developed a functional prototype addressing real-world problems during Anurag Hackathon 2025.

- **Educational Video Generator**

AI-powered system combining TTS, narration sync, and Manim animations to auto-generate learning videos.

- **AudioBook Generator**

Created an audiobook generator with TTS, emotional intonation, and pause control for natural narration.

- **VisionTalk**

Multi-feature AI tool: live image recognition, image-to-music, image-based storytelling, and integrated voice cloning.

- **Tune Genie**

AI music generator producing authentic Indian traditional tunes based on user-provided scenes, with multiple samples.

- **Personalized AI Tutor**

Adaptive AI tutor that restructures course modules based on user performance for personalized learning.

- **Music Management Application (Python)**

CLI-based app to manage music data (add, remove, modify songs) with playlist-like functionality.

- **Data Analysis on Titanic Survivors**

Explored Titanic dataset, analyzing survival patterns by gender, age, and ticket class using Pandas, NumPy, and Seaborn.

- **Static Website Deployment through AWS**

Deployed static site using AWS S3 and EC2, configured policies, and monitored with CloudWatch. Exposure to Azure and GCP.

## ACHIEVEMENTS

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- 2nd Prize – NEXOATE 2025 Hackthon - Geethanjali College
- 2nd Prize – CYPHER 2025 Hackathon - CVR College
- 2nd Place – JIJNASA 2024 Hackathon - Bhoj Reddy Engineering College
- 2nd Prize – College Science Expo - Sri Indu College of Engineering and Technology
- Built and led multiple award-winning projects at national and college-level hackathons

## POSITIONS OF RESPONSIBILITY

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- **House Captain** – Voxpop International School (2016–2018): Led inter-house competitions and team events.
- **Vice-Captain** – Assisted in planning, logistics, and mentoring for school-level contests.