NANDAN HEMANTH

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PROFESSIONAL SUMMARY

Machine Learning Engineer with expertise in deep learning, computer vision, Big-data and AI pipeline development, including production-ready transformers, RAG systems, and real-time speech synthesis. Proven experience in end-to-end ML lifecycle management, Big-data, Systems Design and deploying scalable AI solutions.

EDUCATION

Stevens Institute of Technology — Expected Graduation: May 2026
Master of Science in Applied Artificial Intelligence

PES University — Graduation: May 2024
Bachelor of Technology in Computer Science Engineering (Machine Learning & Data Science)

TECHNICAL SKILLS

Languages: Java, Python, HTML/CSS, JavaScript, C, MySQL, Shell Script, Julia, Mojo
Technologies: Unix, Git, GitHub, LangChain, Transformers, LLMs, Computer Vision, AR/VR, SQL, MERN stack, BabylonJS, Next.js, Three.js, Flutter, Flask, Django, Streamlit, Gradio, Qiskit, MATLAB, Slack, Figma, Hadoop

WORK EXPERIENCE

Stevens College of Professional Education — Nov 2024 – Present
Research/Graduate Assistant
- Working on an AI-powered career platform for corporate companies. In addition to front-desk engagement with alumni, students, and staff, helped mentor and organize CPE's flagship hackathon; actively contributing to podcasts and accessibility initiatives.

Channel-AI — May 2024 – Jun 2024
Machine Learning Intern
- Engineered an AI-driven pipeline leveraging LangChain's agent framework and web scrapers to automate collection and storage of current business news in a vector database and RAG system.

Boltcode Private Limited — Mar 2024 – Apr 2024
Full-Stack Developer
- Built front-end infrastructure in React and contributed to back-end services; implemented testing and code optimizations for seamless integration and improved web performance.

Centre for Airborne Systems (CABS), DRDO — Jun 2023 – Jul 2023
Deep Learning Intern
- Developed WANI, an offline multilingual Text-to-Speech Transformer for resource-constrained environments; conducted rigorous experimentation to achieve expressive, emotionally nuanced speech synthesis.

ACADEMIC PROJECTS

MacroMind – Lifestyle SuperApp — Feb 2025
- Built an AI fitness platform using MediaPipe and Computer-Visiion for real-time posture analysis; added personalized meal planning and curated shopping lists. Secured 1st place in two tracks at MLH HackRU 2025.

Flexa – Secure AI Bill-Splitting & Payments — Mar 2025
- Reimagined Splitwise with AI: image-based bill parsing, smart splitting, integrated with Stripe payments, and secure transactions on the Solana blockchain.

Blabber – Seamless Call Translator with Voice Cloning — Feb 2023 – Dec 2023
- Capstone project: real-time, bi-directional call translation (200+ languages) with high-fidelity vocoder; adaptive voice cloning that improves over time. Typical latency buffer: 6–8 seconds.

PUBLICATIONS

- Co-author, "Call Translator with Voice Cloning Using Transformers," *IEEE 9th International Conference for Convergence in Technology*, India, Apr 5–7, 2024.
- "Teacher to Student Knowledge Transfer in LLMs," Master's Thesis (In Progress), supervised by Prof. Hao Wang, Stevens Institute of Technology, Expected Dec 2025.

CERTIFICATIONS & AWARDS

- AWS Educate Certified: Cloud Learning 101
- 1st place in Solo Track & AI Track at HackRU (MLH @ Rutgers, 2025); 2nd place at British Telecom Hackathon (2023).