

NIKHIL MAMILLA

LinkedIn GitHub Portfolio

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EDUCATION

- BV Raju Institute of Technology, Narsapur** Telangana, India
 - Bachelor of Technology - Computer Science and Engineering; GPA: 9.00* *August 2023 - July 2027*
 - Courses: Full-stack web development, GenAI, Data Structures, Artificial Intelligence, Machine Learning, Cloud Computing.*

SKILLS SUMMARY

Languages	C, Python, JavaScript, SQL, C++ (Basics), Java (Basics).
Libraries	Pandas, NumPy, Matplotlib, Seaborn, NLTK, SpaCy, Transformers.
Frameworks	Scikit-learn, TensorFlow, PyTorch.
Web Technologies	HTML, CSS, ReactJS, Flask, Node.js, Tailwind CSS.
Tools	Git, GitHub, VS Code, Jupyter Notebook, Postman.
Platforms	Vercel, Google Firebase, MySQL, Docker.
Soft Skills	Leadership, Problem Solving, Writing, Public Speaking, Time Management.

EXPERIENCE

- Viswam.ai — Summer of AI** Hyderabad / Remote
 - Tech-Lead Intern* *May 2025 – July 2025*
 - AI Systems Leadership:** Led AI pipeline development using Python, NLP, and Transformer architectures.
 - Model Training & Evaluation:** Guided peers in training and fine-tuning foundational AI models for regional languages.
 - Data Annotation & Automation:** Contributed to dataset creation, automation scripts, and evaluation tools.
 - Collaboration:** Worked under the Viswam.ai initiative in collaboration with IIIT-H, Swecha, and Meta.
 - Social Impact:** Helped build inclusive AI solutions supporting underserved language communities.

PROJECTS

- AuraCheck – Mental Wellness Web App:** Developed a full-stack wellness platform with personalized onboarding, mood/stress/sleep tracking, journaling, and AI-powered chatbot (AURABOT).
Tech: React, Firebase, JavaScript, Tailwind CSS (Live Demo)
- BVRIT Alumni-Student Connect Platform:** Built a role-based networking platform for students and alumni with dashboards, mentorship matching, and AI-powered assistance.
Implemented secure auth, opportunity board, event tools, and chatbot support using Gemini API.
Tech: React, Vite, Tailwind CSS, TypeScript, Firebase (Live Demo)
- NRSC Cloud & Shadow Masking Challenge:** Participated in NRSC Offline Coding Challenge (03-Jun to 04-Jul 2025); built an automated pipeline to generate cloud and shadow masks from Resourcesat-2/2A LISS-IV satellite imagery. Used unsupervised classification, thresholding, and optionally ML libraries like GDAL/Rasterio, OpenCV, PyTorch/TensorFlow for >90% mask accuracy.
- Heart Failure Prediction using ML:** Built and evaluated ML models to predict heart failure based on clinical features using classification algorithms and performance metrics.
Explored Logistic Regression, KNN, and Decision Trees with visualizations and confusion matrix analysis.
Tech: Python, scikit-learn, pandas, matplotlib, seaborn (Notebook)
- Coding Brigade BVRIT – Official Club Website:** Created and developed the official website for Coding Brigade BVRIT, the coding club of B V Raju Institute of Technology, Narsapur. Built using modern web technologies and frameworks. **Tech Stack:** React, Vite, Tailwind CSS, Three.js, Framer Motion, React Router, EmailJS, GSAP, ESLint, GitHub Pages.

EVENTS AND HACKATHONS

- Megathon 2024 – Mental Health NLP Solution:** Built a 5-stage NLP pipeline at IIIT-H's 24h hackathon to detect, classify, and analyze mental health concerns from user text. Including polarity detection, NER, concern classification, intensity scoring, and sentiment timeline analysis.
- Udhagam 2K25 – Team Lead, TeamDelta (Woxsen Hackathon):** Led development of AuraCheck, a personalized mental wellness platform with onboarding, mood/stress/sleep tracking, journaling, and an AI chatbot. Won recognition for impactful design and NLP-backed features enhancing emotional awareness and user engagement.
- PRANATHI Conference – INPHES 2024, BVRIT Narsapur:** Received Best Paper Award for my research titled "Mental Health Prediction using Random Forest Classifier: A Machine Learning Approach".

CERTIFICATIONS AND ACHIEVEMENTS

- Tech-Lead Intern – Summer of AI 2025, VISWAM.AI & IIITH, May 2025 *Offer Letter*
- TechA Web Development Using HTML and CSS - Infosys Springboard, October 2024 *Certificate*
- Database Programming with SQL - Oracle Academy, October 2024 *Certificate*
- TechSurge'24 Yukti Hackathon - BVRIT Narsapur, May 2024 *Certificate*
- The Joy of Computing Using Python - NPTEL, May 2024 *Certificate*
- PRANATHI Conference – INPHES 2024, BVRIT Narsapur, May 2024 *Certificate*