Sri Ramani Thungapati

+1 (510)-516-6998 | sthungapati@csuchico.edu | linkedin.com/in/ramani-t/ | github.com/sthungapati

EDUCATION

California State University, Chico **May 2026**

Bachelor of Science in Computer Science with Data Science Certification

Activities- Stanford Hackathon, LA Hacks**,** Association for Women in Computing Machinery, Upsilon Pi Epsilon, Society of Women Engineers, AS Commissioner of Sustainability Affairs.

TECHNICAL SKILLS

Languages: C/C++, Python, Java, JavaScript, SQL, R, HTML, CSS, Bash, Assembly

Frameworks: Django, React, Angular, Next.js, Flask, TensorFlow, PyTorch, scikit-learn, Pandas, NumPy, OpenCV

Tools: Git, Docker, MongoDB, PostgreSQL, Selenium, AWS, GCP, Tableau, Power BI

WORK EXPERIENCE

Machine Learning Engineer **May 2025 - Present**
IpserLab *Fort Worth, Texas*

- Built an AI-powered travel planner using **GPT models**, reducing manual planning time by over 90% and enhancing overall user experience.
- Integrated a **Retrieval-Augmented Generation (RAG**) pipeline and AI chat assistant for personalized travel recommendations using NLP and live data.
- Developed a **Model Context Protocol (MCP)** handling 50K+ API calls, improving context precision by 35% and cutting response time by 40%.

Machine Learning Research Assistant **October 2024 - Present**
California State University *Chico, California*

- Designed **ML-based sensor systems** to detect poaching threats to wild animals using motion, infrasound, and acoustic data, processing over 10K+ real-world samples.
- Trained and optimized **deep learning models (YOLOv8, Vision Transformers)** for deployment in wildlife reserves, enabling sub-second inference and edge-based response.
- Improved real-time threat detection accuracy by 23% and reduced false alarms by 31% through algorithm refinement and multi-modal data fusion techniques.

ML & Data Science Intern **June 2024 - August 2024**
Tech Mahindra *Hyderabad, India*

- Created a Parkinson's classification pipeline in **TensorFlow,** reaching 88% accuracy with interpretable, probability-based outputs.
- Cleaned and preprocessed over 10K medical records using **SQL and NoSQL**, improving model input quality by reducing data noise by 40%.
- Via Python and R, we utilized **sklearn, seaborn, ggplot, NumPy, Pandas, and Matplotlib** to analyze data trends.

Data Analyst Intern **September 2020 - January 2021**
Rubaroo *Hyderabad, India*

- Cleaned and processed 1.5K+ survey responses using **Python,** resolving missing data for accurate analysis.
- Created interactive visualizations in **Tableau and Matplotlib,** enabling stakeholders to interpret results and align program strategy with findings.

PROJECTS

NATSU AI - AI companion for senior citizens | LA Hacks, UCLA **March 2025**

- Pioneered an AI-powered medical assistant with **Python and OpenAI APIs**, enabling 93 %+ response accuracy.
- Orchestrated a secure health vault and smart reminder system using **Firebase, PostgreSQL, and Twilio**, supporting HIPAA-compliant uploads, test parsing, and alerts for 10K+ users.

AERO - Automated Execution & Response Orchestrator | TreeHacks, Stanford **February 2025**

- Architectured AERO, a high-performance AI assistant integrating **LLMs, vision processing**, and automation, executes 100+ system-level operations with 95% precision in intent recognition.
- Implemented multi-modal interaction layers (voice, text, vision), leveraging **NLP-driven** command parsing and adaptive UI automation, enhancing user efficiency by 50%

FitQuest – Web and Mobile Application **January 2024**

- Developed cross-platform fitness app using **Flutter and Dart**, featuring secure user authentication, interactive workout modules, and a personalized meal planner.
- Integrated **Firebase Authentication and Cloud Storage** to support real-time progress tracking and seamless multi-device data sync across simulated user environments.

CERTIFICATIONS:

- Google Data Analytics Professional Certificate, Google
- Machine Learning Specialization, Stanford University