Ananth Ram Tekkalakota

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EDUCATION

University of Texas at Dallas **Aug 2026**

Bachelor of Science, Computer Science

- **Coursework:** Data Structures and Algorithms, System Programming and UNIX, Computer Architecture, Software Engineering, Probability and Statistics, Artificial Intelligence, Advanced Algorithms Design and Analysis, Intro to Machine Learning

WORK EXPERIENCE

Spark My Sport | *Full Stack Developer Intern* **Jan 2024 - Mar 2024**

- Developed a Typescript program to convert spreadsheet data into JSON files, utilizing object-oriented programming techniques to enhance data interoperability and accessibility.
- Engineered a system using Next.js and JavaScript to visually display JSON data, facilitating real-time data interpretation and decision-making.
- Worked on APIs to pull data and videos from the backend, improving the search algorithm efficiency while documenting code in-line for clarity and future reference.

AIS | *Team Member* **Feb 2023 - Apr 2023**

- Developed a food-scanning Al system using Python's OpenCV library, improving accuracy in food recognition
- Led project life-cycle management, fostering a collaborative team culture and promoting effective communication.
- Devised strategic solutions to optimize the local OpenCV model, enhancing performance and reducing processing time

EPICS | *Back-end Developer* **Jan 2023 - May 2023**

- Led implementation of Next.js, learning the framework for back end development, and contributed significantly to building the back end using Prisma for efficient data management in the EPICS project.
- Developed and optimized APIs, ensuring seamless communication between front-end and back-end components, which improved data exchange efficiency and user experience
- Collaborated in a cross-functional team, rapidly acquiring skills, problem-solving, and contributing to the successful completion of the EPICS course project.

ICode | *Lab Mentor* **Mar 2022 - Feb 2023**

- Created and implemented a dynamic STEM curriculum that boosted student engagement in coding and robotics, successfully coordinated projects and events, and enhanced student satisfaction through regular communication and tailored support for parents.
- Recognized for contributions to technology integration and received positive feedback for creating a dynamic and inclusive learning environment.

PROJECTS

Sentiment Analysis Classifier | Python, Scikit-learn, Pandas, TensorFlow/Keras, TF-IDF **May 2025**

- Built an end-to-end pipeline classifying 100K+ customer reviews as positive/negative using Multinomial Naive Bayes, Linear SVM, and Logistic Regression, achieving 85%+ accuracy on held-out data
- Engineered TF-IDF feature matrices (5,000 most informative terms), tuned vectorizer parameters to improve model performance by 10%
- Implemented an LSTM-based classifier in TensorFlow/Keras, capturing sequential context to boost accuracy by 5% over traditional models
- Evaluated all models using accuracy scores and classification reports; selected the best algorithm based on precision, recall, and F1-score metrics.

Object Segmentation App **Jun 2024**

- Built a web application to detect and segment objects in images, allowing users to upload images and download individual object images.
- Utilized OpenCV for image processing and contour detection, implemented RESTful APIs with Flask, and integrated with Next.js for the frontend.

MedAI **Aug 2023**

- Developed an innovative solution for addressing delayed emergency response times in densely populated cities.
- Utilized Flutter for front-end design, integrating Open Ai's GPT and DALLE models to generate real-time responses to 911 calls.

SKILLS

- Python, Java, C++, HTML/CSS, JavaScript, MySQL, Dart, Flutter, React, Next.js, OpenCV, APIs, GitHub, HTML, Object oriented programming