

NIKHIL ARASADA

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Professional Summary

Results-driven Full Stack Developer with experience building scalable, responsive web applications using React.js, Node.js, Python, and RESTful APIs. Adept at cloud deployment (AWS/GCP), database integration (MongoDB, PostgreSQL), and agile development practices. Passionate about clean code, cross-functional collaboration, and solving real-world problems through end-to-end product development.

Experience

ARTIFICIAL INTELLIGENCE INTERN

CODTECH IT SOLUTIONS | KAVALI(Remote)

2025/02 – 2025/04

- Developed speech recognition model using Python and TensorFlow, achieving 92% accuracy in transcribing customer service calls and reducing manual review time by 40%.
- Implemented a text summarization algorithm using NLP techniques, compressing lengthy documents by 60% while retaining 90% of key information for improved data analysis.

Projects

Full Stack Diabetic Retinopathy Detection Platform

Designed and deployed a full stack web app using React.js, Flask, and MongoDB to classify fundus images with 87% accuracy using a Xception CNN model.

- Designed and deployed a full stack web app using React.js, Flask, and MongoDB to classify fundus images with 87% accuracy using a Xception CNN model.
- Developed and consumed RESTful APIs to connect frontend with backend for real-time image analysis.
- Deployed system on Google Cloud Platform with containerization for scalability and performance.

AI Chatbot for Customer Support Automation included with Speech Recognition System

2025/02 – 2025/04

Implemented a Python-based chatbot using OpenAI's GPT-3 and NLP techniques, deployed via Google Cloud Functions.

- Implemented a Python-based chatbot using OpenAI's GPT-3 and NLP techniques, deployed via Google Cloud Functions.
- Achieved 85% accuracy on intent classification for 500+ user queries, reducing manual workload significantly.
- Integrated UI and backend through secure RESTful endpoints.

Gesture-Controlled Virtual Mouse Interface

Built a computer vision-based virtual mouse using OpenCV, MediaPipe, and PyAutoGUI, enabling hands-free control.

- Built a computer vision-based virtual mouse using OpenCV, MediaPipe, and PyAutoGUI, enabling hands-free control.
- Achieved 90%+ gesture recognition accuracy and optimized real-time processing performance for usability.
- Demonstrated innovative human-computer interaction for accessibility.

Certifications

Full Stack Web Development

Wipro TalentNext

Object-Oriented Programming in Python

Udemy

Agile and SCRUM Fundamentals

Coursera/Udemy

Introduction to Cloud Computing

Google Cloud Skills Boost

Skills

Python	JavaScript	TypeScript	Java
HTML5	CSS3	React.js	MongoDB
PostgreSQL	MySQL	AWS	TensorFlow
PyTorch	NLP	OpenAI API	Git
GitHub	VS Code	Agile	Scrum

Education

PBR Visvodaya Institute of Technology and Science, Kavali

Bachelor of Technology in Computer Science and Engineering

2021 – 2025

AP State Board

null in Class XII (Intermediate)

2021 – 2021

AP State Board

null in Class X (Secondary)

2019 – 2019