

# POTHARAJU LAKSHMI NAGA GEETHIKA

Guntur, India | (+91) 7995948049 | geethikapotharaju@gmail.com | linkedin.com/in/geethika-potharaju

## CAREER SUMMARY

B.Tech graduate in Computer Science Engineering with a specialization in Artificial Intelligence and Machine Learning, showcasing hands-on experience in AI, ML, and Deep Learning. Actively engaged in research on Generative AI and optimization techniques, with a strong foundation in algorithm development, model evaluation, and AI-driven solutions. Possess a dynamic and analytical mindset, strong problem-solving abilities, and a commitment to applying innovative technologies to real-world challenges. Eager to contribute to impactful projects in the fields of Artificial Intelligence, Machine Learning, and Deep Learning.

## SKILLS

- **Technical Skills / Programming languages** – Python / HTML / CSS / Django / SQL / Artificial Intelligence / Machine Learning / Deep Learning / POWER BI / BOOTSTRAP
- **Soft Skills** – Leadership / Mentorship / problem solving ability / collaborative / Profitability

## WORK HISTORY

### Artificial Intelligence Intern – Skilldrize (April 2024 – July 2024):

Gained hands-on experience in developing and optimizing machine learning models for real-world applications. Worked on data preprocessing, model training, and performance evaluation to enhance AI solutions.

- **Heart Disease Classification:** Developed a machine learning model to predict heart disease risk using patient data, improving early diagnosis accuracy. Implemented feature engineering and model optimization techniques for better performance.
- **Alzheimer's Disease Detection:** Built a deep learning model for early Alzheimer's detection using brain scan images. Utilized convolutional neural networks (CNNs) for accurate classification and analysis.
- **Traffic Sign Recognition with Symbols:** Designed an AI-based system to recognize and interpret traffic signs using image processing. Employed deep learning techniques to enhance real-time sign detection accuracy.

### Machine Learning Intern – Plasmid Innovation (June 2024 – August 2024):

Focused on data-driven solutions by applying machine learning techniques. Developed models for classification, regression, and anomaly detection tasks.

- **User Defined Functions in Python:** Researched and documented the significance of user-defined functions in Python, covering their implementation and real-world applications. Provided structured insights with examples to demonstrate modular programming and code reusability.
- **Online Payment Fraud Detection:** Developed a machine learning model to detect fraudulent transactions using classification algorithms. Implemented data preprocessing, feature engineering, and performance evaluation techniques to improve fraud detection accuracy.

## EDUCATION

- B.Tech-CSE Artificial Intelligence and Machine Learning,2025,MalineniPerumallu Educational Society's Group Of Institutions,Guntur
- Intermediate – MPC, 2021, Sri Chaitanya Junior college, Guntur
- Tenth – SSC, 2019, Gemini's Smart Kids School, Guntur

## PROJECT

### QR-Code Pixelated Antenna with Multi-Factor Authentication for Wireless and Security Applications (January 2025 – March 2025):

Designed a QR-code-based pixelated antenna to enhance wireless security and efficiency. Integrated multi-factor authentication to ensure secure access and prevent unauthorized intrusions.

- **Innovative QR-Code Antenna Design:** Developed a pixelated QR-code-based antenna for wireless communication, enhancing signal efficiency and security features. Integrated advanced design techniques for optimized performance.

- **Multi-Factor Authentication Integration:** Implemented multi-factor authentication (MFA) to strengthen security in wireless applications. Combined cryptographic techniques with QR-based access control for enhanced protection.
- **Secure Wireless Applications:** Designed the system for secure data transmission in wireless networks, ensuring authentication and encryption. Improved resilience against unauthorized access and cyber threats.

## PARTICIPATION

Attended Hackathon conducted in our college based on Artificial Intelligence.

### AI-DRIVEN VIRTUAL TRAVEL GUIDE: (Feb 13-Feb 20(2024))

- **Description:** Developed a location-based app to help tourists explore cities, find nearby attractions, and receive personalized recommendations. Integrated real-time geolocation, personalized suggestions, and offline access features, ensuring an enhanced travel experience for users.
- **Skills:** Natural Language Processing (NLP), Machine Learning, Real time data-API's
- **Libraries:** TensorFlow, Py Torch, NumPy, Google Maps API

## CERTIFICATIONS

- Certified in Python Basics-HackerRank
- Certified in Generative AI:The Evolution of Thoughtful Online Search-LinkedIn
- Certified in Streamlining Your Work with Microsoft Copilot-LinkedIn
- Certified in What Is Generative AI?-LinkedIn
- Certified in Salesforce-Salesforce.com
- Certified in Hackathon by Hackbots

## LANGUAGES KNOWN

- English
- Telugu
- Hindi

## HOBBIES

- Cooking
- Listening songs
- Coding
- Learning new things

## DECLARATION

I hereby declare that the information given above is true and accurate to the best of my knowledge.

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