

# HEMANTH KUMAR CHANDAKA

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## PROFILE SUMMARY

Enthusiastic and goal-driven undergraduate pursuing B.Tech in Electrical and Electronics Engineering with a strong passion for software development, artificial intelligence, and quantum computing. Skilled in integrating electrical principles with emerging AI technologies to build intelligent analytical systems. Eager to contribute to impactful projects through innovation, problem-solving, and teamwork.

## EDUCATION

**Lendi Institute of Engineering and Technology**

**2023 – 2027 (Expected)**

*Bachelor of Technology in Electrical and Electronics Engineering (EEE)*

*Vizianagaram, Andhra Pradesh*

- Consistent academic performance with keen interest in AI and Machine Learning and other Sub Domains.

## PROJECTS

**Quantum Rush – Hybrid Quantum-Classical Fraud Detection System** | Python, Qiskit, PaySim Dataset **2025**

- Developed a hybrid quantum-classical pipeline using a 17-qubit variational quantum circuit for financial fraud detection.
- Implemented actor-critic reinforcement learning for real-time transaction decisioning.
- Improved fraud detection accuracy through superposition-based quantum state encoding.

**Power Quality Analyzer** | Python, Machine Learning, NumPy, Pandas, Scikit-learn **2025**

- Developed an ML-based system to analyze voltage and current waveforms for power quality classification.
- Trained on real-world datasets to identify events such as sag, swell, interruption, and harmonics.
- Applied FFT-based feature extraction and built classification models achieving high detection accuracy.

**Conversational Image Recognition Chatbot** | Python, TensorFlow, OpenCV, NLP, Flask **2024**

- Built an AI-powered chatbot integrating image recognition and natural language understanding.
- Used CNN for image feature extraction and Transformer-based NLP for query understanding.
- Deployed via Flask for web access with smooth UI and scalable backend.

**EEE Hub – Department Resource Website** | HTML, CSS, JavaScript, Firebase **2024**

- Built a structured academic hub for EEE students to access important questions, units, and topics.
- Added smooth animations, elegant UI, and efficient navigation flow.

## HACKATHONS & WORKSHOPS

- Participated in national and regional hackathons solving real-world problems using AI and IoT.
- Participated in IEEE Xtreme 18.0 and 19.0 WorldWide 24 Hour Coding Competetion and Secured Global Wide Ranks.
- Attended workshops on Machine Learning, Cloud Computing, and Quantum Technologies.
- Collaborated with interdisciplinary teams for innovative prototype development.

## EXPERIENCE / VOLUNTEERING

**National Service Scheme (NSS), Lendi Institute of Engineering and Technology**

**2024 – Present**

*Volunteer Member*

*Vizianagaram*

- Actively participated in community welfare programs.
- Contributed to awareness events promoting health, education, and social responsibility.

**Energy Conservation Club – Lendi Institute of Engineering and Technology**

**2024 - Present**

*Technical Member & Marketing Volunteer*

*Vizianagaram*

- Promoted and marketed energy-efficient LED bulbs developed by the EEE Department.
- Raised awareness among students and staff about sustainable energy practices.

## ACHIEVEMENTS & AWARDS

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- **Winner – Hack 2 Impact 2025:** 2-day hackathon organized by Gayatri Vidya Parishad College of Engineering.
- **Smart India Hackathon (SIH) – College Internal Round Winner (2024 & 2025):** Led the team to victory by developing innovative AI-driven solutions.
- **Amaravathi Quantum Valley Hackathon 2025:** College-level winner and regional round runner-up for a quantum-powered analytics problem statement.
- **Ideathon – Andhra University (2025):** Secured 3rd prize among 50+ teams for presenting an AI-based sustainable innovation idea.

## TECHNICAL SKILLS

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**Programming Languages:** Python, C, C++, JavaScript, SQL

**Frameworks & Tools:** Flask, Node.js, Express.js, Flutter, Firebase, React, MongoDB, Google Cloud

**Areas of Interest:** Artificial Intelligence, Quantum Computing, Software Development, Data Structures & Algorithms

**Developer Tools:** VS Code, PyCharm, GitHub, Canva, Google Colab, Postman

## CERTIFICATIONS

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- Mastering Data Structures and Algorithms – Udemy
- Introduction to Machine Learning – Coursera
- Complete Web Development Bootcamp – Udemy
- Quantum Computing Fundamentals – IBM Qiskit

## EXTRACURRICULAR ACTIVITIES

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- Organized and volunteered multiple technical and community service events under NSS.
- Actively participated in college-level hackathons and project showcases.
- Mentored peers in programming basics and helping them learn C/C++ and Python.