# BHEEMARATI PARDHUVA

📞 (+91) 837-435-8489   ✉ pardhuvabheemarati@gmail.com   in LinkedIn   🐙 GitHub

## EDUCATION

| Program | Institute | Year | %/CGPA |
|---|---|---|---|
| Bachelor of Technology | IIIT Sricity | 2027 | 9.1/10 |
| Senior Secondary Education (XII) | Sri Chaitanya College | 2023 | 97.6/100 |
| Secondary Education (X) | Sri Chaitanya School | 2021 | 9.6/10 |

## PROJECTS

### HinTel – Telugu–Hindi Machine Translation | NLP, Hybrid Approach                    2025

- Designed a hybrid MT system combining rule-based linguistic analysis with statistical language modeling for TeluguHindi.
- Implemented tokenization, POS tagging, transliteration, and dictionary-based mapping for accurate structure alignment.
- Enhanced fluency and grammar using n-gram scoring and post-processing correction rules.

### Air Quality Index (AQI) Classification | ML (LR, SVM, DT, NB)                    2024

- Developed four ML classifiers from scratch and evaluated them on multi-city and Delhi AQI datasets.
- Built a complete preprocessing pipeline with imputation, encoding, scaling, and SMOTE to handle class imbalance.
- Achieved highest accuracy using Decision Tree (77.6%), identifying PM2.5 as the most impactful pollutant.

### Gardenly – Online E-commerce Nursery | React.js, Express, MongoDB                    2025

- Developed a responsive React.js frontend with dynamic product listings, filters, and user dashboards.
- Built a secure backend using Express and MongoDB for authentication, order handling, and product management.
- Integrated online payments and optimized the search and browsing workflow for smooth user experience.

## SKILLS

| | |
|---|---|
| **Languages** | Java, C, Python, JavaScript |
| **Frontend** | React.js, HTML, CSS, EJS |
| **Backend** | Node.js, Express.js, REST APIs |
| **Databases** | MongoDB, MySQL, SQLite |
| **Tools & Platforms** | VS Code, Git, GitHub, Postman, AWS |
| **Core CS Concepts** | Data Structures, Algorithms, OOP, OS |

## POSITIONS OF RESPONSIBILITY

### Open Source Contributor – GSSOC                    2024 - Present

- Regularly contribute to open-source projects on GitHub.
- Collaborated with developers worldwide to improve software projects.

### Core Member – Student Satellite Project, IIIT Sricity                    2024 - Present

- Contributing to the institute's nanosatellite initiative involving subsystem development and testing.
- Working with teams on payload integration, communication modules, and structural design.

### Core Member – Gradient, IIIT Sricity                    2024 - Present

- Actively contribute to the institute's technical R&D club.
- Participated in ML/NLP research discussions, project reviews, and internal workshops.

### Core Member – ProShows, IIIT Sricity                    2024 - 2025

- Actively contributed to organizing technical and cultural events at the institute.

## CERTIFICATIONS

### Infosys Springboard Certifications                    2025

- Completed *Programming in Java* – Infosys Springboard
- Completed *Data Structures and Algorithms using Java* – Infosys Springboard
- Completed *SQL and Database Management* – Infosys Springboard

## CODING PROFILES

- Solved 300+ problems on LeetCode (Profile Link)
- Active participant on HackerRank (Profile Link)
- Active participant on Greeks for Greeks (Profile Link)