

# PALAKURLA JYOTHIRMAI

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## Objective

Aspiring Computer Science student eager to gain hands-on experience in software development and enhance my programming knowledge, with a goal of becoming a skilled software engineer.

## Education

<b>Annamacharya Institute of Technology and Sciences, Hyderabad</b> <i>B.Tech in Computer Science and Engineering</i>	<b>2021 – 2025</b> <i>CGPA: 7.00</i>
<b>Telangana State Model Junior College, Narayanpur</b> <i>Higher Secondary Education</i>	<b>2019 – 2021</b> <i>CGPA: 5.6 / 10</i>
<b>Telangana State Model School, Narayanpur</b> <i>Secondary Education</i>	<b>2018 – 2019</b> <i>GPA: 9.0 / 10</i>

## Projects

### Major Project: Online Product Optimization (Java)

- Developed a web-based system for optimizing online product listings using **Java** and **JSP/Servlets**.
- Implemented modules for user authentication, product management, and analytics dashboard to monitor product performance.
- Optimized product visibility using algorithmic recommendations based on pricing, ratings, and user engagement metrics.
- Integrated database operations using **MySQL** and implemented backend logic following the MVC architecture.

### Crop Recommendation using Random Forest (Python)

- Developed a crop recommendation system using the **Random Forest algorithm** to help farmers identify the most suitable crop based on soil nutrients, rainfall, and temperature.
- The system takes user inputs for soil and weather conditions and predicts the best crop using trained machine learning models.
- Implemented using Python libraries like **scikit-learn**, **pandas**, and **NumPy**.

## Technical Skills

**Programming Languages:** Python, Java, JavaScript

**Frameworks:** Django, React.js

**Web Technologies:** HTML, CSS, JavaScript

**Database:** SQL

**Soft Skills:** Quick Learner, Team Player, Logical Thinking, Problem Solving, Time Management, Communication

## Certifications

Completed **Python Programming** course from **CodTech IT Solutions**, covering core concepts like data types, variables, and control structures.

Certified in **IoT (Internet of Things)** from **Varaanasi**.

Certified in **Python Full Stack Development** — building scalable web applications using Python and modern JavaScript frameworks.

Certified in **Java Full Stack Development** — backend using Java and Spring Boot, with responsive web front-end integration.

## Declaration

I hereby declare that all the above-mentioned particulars are true to the best of my knowledge and belief.