

## SHANMUKHA PENTA

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### CARRER OBJECTIVE

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Aspiring Python Developer with a strong foundation in Python, Django, HTML, and CSS, seeking an entry-level position to apply my programming skills in developing dynamic and user-friendly web applications. Eager to contribute to innovative projects, learn from experienced professionals, and grow into a proficient full-stack developer in a collaborative and technology-driven environment.

### EDUCATION

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Master of Computer Applications (MCA)	2023 - 2025
University Arts & Science College, Warangal	Percentage: 73%

### TECHNICAL SKILLS

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- **Programming Languages:** Python,Django.
- **Web Development:** HTML, CSS, Bootstrap, JavaScript(basics)
- **Databases:** MySQL
- **Version Control:** Git, GitHub
- **Visualization Libraries:** NumPy, Pandas, Matplotlib
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### PROJECTS

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#### 1.IoT-Enabled Smart Traffic Management System

- Developed an IoT-based system to monitor and optimize urban traffic flow using real-time sensor data and AI/ML algorithms.
- Designed dynamic traffic signal control to reduce congestion and prioritize emergency vehicles.
- Built a multi-layer architecture with sensors (CCTV, radar, GPS), edge computing, and cloud storage.
- Integrated wireless (Wi-Fi, Zigbee, Bluetooth) and wired (Ethernet, Optical Fiber) communication protocols.
- Applied data analytics for traffic pattern prediction and congestion forecasting.
- Achieved up to 21% congestion reduction, improved emergency response times, and reduced fuel wastage.

**Technical Skills:** IoT Architecture, Embedded Sensors, Edge Computing, Cloud Platforms, Data Analytics, AI/ML.

#### 2. Project: Food Mart | Technologies: HTML, CSS, Bootstrap

Food Mart is a static web platform connecting farmers directly with customers, eliminating middlemen and promoting 100% natural, organic products.

Built using HTML and CSS, it features a clean, responsive, and user-friendly interface for easy browsing and product discovery.

Key features include direct farmer-to-customer interaction, promotion of local produce, and visually organized product sections.

Focused on front-end design and development, including layout, styling, and improved user experience.

Empowered local farmers by providing an online marketplace to expand reach and ensure fair pricing.

### CERTIFICATION

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| • Data analytics essential - CISCO |                      |
| • Front-end development - APSCHE   | Jan 2023 - June 2023 |

### SOFT SKILLS

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Communication | Time Management | Adaptability | Problem-Solving | Hard worker| Active Listening | Flexibility | Leadership | Public Speaking.