

MEGHANA MAMILLAPALLI

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EDUCATION:

Florida Atlantic University, Boca Raton, FL
Master's | Information Technology and Management (GPA: 3.6/4.0)
Concentration: Artificial Intelligence, Internet of Things, Cloud Computing
Gudlavalleru Engineering College, Andhra Pradesh, India
Bachelor of Technology | Electrical & Electronics Engineering (GPA: 9.58/10)

May 2025
Boca Raton, Florida
April 2023
Andhra Pradesh, INDIA

TECHNICAL SKILLS:

Programming Languages: Java, Python
Frontend: HTML, CSS, JavaScript (React, Angular)
Backend: Java (Spring Boot), REST APIs
Databases: MySQL, PostgreSQL
Cloud: AWS (EC2, S3, Lambda)
DevOps & CI/CD: Jenkins, GitHub Actions, GitLab CI
Tools & Technologies: GitHub, Power BI, VS Code, Jupyter Notebook

WORK EXPERIENCE:

Customer Segmentation Analysis **April 2023 – July 2023**
Hyderabad, INDIA

- Analyzed customer data using Power BI & SQL, leading to a 15% increase in marketing efficiency.
- Designed and implemented interactive Power BI dashboards, improving data analysis efficiency by 30%.
- Built and optimized a Customer Segmentation Dashboard using Power BI and Power Query. Proficiency in analyzing data visualizations and extracting practical insights for marketing tactics
- Hands-on experience integrating data research into actual business situations

ACADEMIC PROJECTS:

LUNG CANCER DETECTION AND CLASSIFICATION **June 2020 - May 2021**

- Developed a deep learning-based model for lung cancer detection using EfficientNet-B7 and ResNet50, achieving 92% accuracy in classification of CT scan images.
- Applied advanced techniques like feature extraction, image segmentation, and contrast enhancement to improve early-stage diagnosis.
- Demonstrated the potential of learning in transforming healthcare by enabling early detection and treatment of lung cancer.

AUTOMATIC RAIN SENSING CAR WIPER **June 2021 - August 2022**

- Developed a car rain-sensing system using Arduino and water sensor modules to detect moisture and automate wiper function.
- Integrated a motor driver to control wiper speeds based on rain intensity, enhancing driving safety in wet conditions.
- Demonstrated practical use of Arduino technology for real-time, automated control systems in automotive applications.

SOLAR PHOTOVOLTAIC SYSTEM WITH UNIVERSAL ACTIVE FILTERING CAPABILITY **August 2022 - March 2023**

- Developed a Unified Power Quality Conditioner (UPQC) integrated with photovoltaic systems to enhance voltage and current quality.
- Replaced conventional PI controllers with fuzzy logic controllers (FLC) and implemented proportional resonant control to enhance stability and voltage regulation.
- Published findings in BioGecko, demonstrating improved system performance and energy efficiency.

CERTIFICATIONS:

- AWS Cloud Practitioner Certification (In Progress)
- Cisco Networking Academy - Introduction to Cybersecurity
- ICT Academy - Cloud Computing 101 (AWS)
- ICT Academy - Principles of Design Thinking
- Anywhere - Getting Started with RPA

PROFESSIONAL DEVELOPMENT:

- Webinar on World Ozone Day by LBRCE.
- Participated in Start-Ups Awareness & its Significance Online Workshop conducted by LBRCE.
- Participated in Python Programming Workshop Conducted by APSSDC.

INTERSHIPS & TRAINING:

- Internship in Applied Robotic Control: Developed software for controlling robotic systems using Python and Raspberry Pi.
- AWS Learning Path for Cloud Practitioner: Completing AWS Cloud Practitioner certification to gain expertise in cloud computing and services.
- Electrical Detailed Engineering Internship: Gained practical knowledge in electrical design using software tools like DIALux and AutoCAD.