# DHARSHNI SURESH LAVANYA

Abu Dhabi, UAE | +971 56 3120381 | dharshinidelta@gmail.com

## PROFESSIONAL SUMMARY

Motivated Computer Science student specializing in Artificial Intelligence, set to graduate within a month. I have a strong foundation in machine learning and software development, with experience in AI-driven projects and published research papers in IEEE. Skilled in automating business processes and enhancing efficiency through AI and data analytics. Passionate about leveraging technology to solve real-world challenges and drive meaningful impact.

## EDUCATION

**Sri Ramakrishna Engineering College, Coimbatore** — 2021-2025
B.E. in Computer Science and Engineering — CGPA: 8.69
Speliaziation in Artificial Intelligence and Machine Learning

**Bright Riders School, Abu Dhabi** — CGPA: 9
High School — Class of 2021
Percentage: 93.8%

## WORK EXPERIENCE

### IT Intern, Cambridge Medical & Rehabilitation Center, Abu Dhabi — 2024 June - December

- Developed an ASP.NET web application with SQL Server, enabling real-time monitoring and reducing manual reporting time.
- Designed Power BI dashboards that improved KPI tracking, cutting decision-making time by 30%.
- Optimized database performance, reducing query times from 5s to 1s, enhancing business insights.
- Provided IT support, decreasing system downtime by 20% through proactive troubleshooting.

### Robotic Process Automation Intern, Atominos Consulting, Coimbatore — 2023 December

- Automated repetitive tasks with UiPath, reducing manual workload by 50%.
- Developed an Automated Mail Reader with UiPath, cutting client response time by 35%.
- Used Python (BeautifulSoup) for web scraping on stock markets and Amazon, supporting business insights.
- Built an OCR-based Invoice Reader using Tesseract, reducing invoice processing errors by 25%.

## SKILLS

**Programming & Development:**
- Python, C, SQL, MySQL
- ASP.NET Core, JavaScript, HTML/CSS, C#.

**Machine Learning & AI:**
- TensorFlow, SciKit-Learn, OpenCV, Computer Vision

**Data Processing & Analysis**
- Pandas, NumPy, Matplotlib, MATLAB

**Cloud & Data Platforms:**
- Google Cloud Platform, Power BI, Data Visualization

**Soft Skills:**
- Problem Solving, Analytical Thinking
- Adaptability, Communication, Resilience

## CERTIFICATIONS

- MATLAB Onramp
- Data Visualization with Power BI (Udemy)
- Edge Computing (NPTEL)
- Intro to AI Powered Automation (UiPath)
- Foundation of Cloud IoT Edge ML (NPTEL)
- Google Cloud Skills Boost: Earned multiple badges, including:
  - Prepare Data for ML APIs on Google Cloud
  - Google Cloud Computing Foundations
  - Level 3: GenAI
- Introduction to NoSQL Databases (Coursera)
- Supervised Machine Learning: Regression and Classification (Coursera)

## PROJECTS

### Brain Tumor Detection using CNN

- Developed a deep learning model with AlexNet architecture for MRI-based brain tumor detection.
- Achieved an accuracy of 94.76%, improving over traditional diagnostic methods.
- Published research in IEEE: DOI: 10.1109/ICIRCA57980.2023.10220625.

### Data Analytics Dashboard using ASP.NET

- Designed an interactive SQL-based dashboard for business intelligence.
- Reduced data retrieval time by 60%, improving operational efficiency.
- Improved user accessibility by integrating frontend visualization with backend data processing.

### Digital Watermarking Using Steganographic and Cryptographic Methods

- Implemented a digital watermarking system using SVD and DWT for image authentication.
- Applied steganography and cryptography techniques to embed secure, invisible watermarks.
- Enhanced image security, copyright protection, and tamper detection using Python and OpenCV.