

ARUMUGA TAMIL SELVAN M

AI ENGINEERING STUDENT

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PROFILE

AI Engineering Student with a focus on Computer Vision and Deep Learning. Skilled in TensorFlow, PyTorch, and Scikit-learn. Proficient in model deployment, optimization, and problem-solving. Experienced in Python, Java, C, C++, and various data visualization tools. Familiar with Git and Docker for version control and containerization.

WORK EXPERIENCE

AI Developer Intern - Specializing with Computer Vision

Mar 2024 - Present

Ramco Cements , Ariyalur.

- Collected and preprocessed real-time industrial data and images
- Acquired and annotated images for segmentation model training
- Trained and evaluated segmentation models using real-time live stream data
- Diagnosed and optimized models to reduce size
- Successfully reduced inference speed from 256 ms to 28 ms by converting the model to ONNX
- Quantized models to enhance efficiency and performance
- Fine-tuned models to achieve 97% accuracy.

Data Science Intern

Sep 2023 - Dec 2023

Igress Solutions, Bengaluru, Karnataka

- Spearheaded analysis of Israel-Palestine conflict data (2000-2023) employing Python, SQL, and Tableau
- Developed end-to-end data pipelines and predictive models focusing on Time Series analysis

EDUCATION

Bachelor of Technology in
Artificial Intelligence & Data Science

Ramco Institute of Technology

CGPA : 8.31

Expected graduation Sep 2026

Higher Secondary Education

St Joseph RC High. Sec School

Percentage : 84.6%

2016 - 2022

TECHNICAL SKILLS

- Artificial Intelligence :**
Computer Vision, Deep Learning, LLM.
- Machine Learning :**
TensorFlow, PyTorch, Scikit-learn, NLP, Model Deployment.
- Performance Optimization
- Programming Languages :**
Python, Java, C, C++
- Data Visualization : Power BI, Python, R, Tableau, Looker
- Problem Solving
- Git & Docker
- Databases :** SQL , Oracle, PostgreSQL, MongoDB, Microsoft SQL Server

- Engineered features to enhance machine learning algorithms' performance and accuracy
- Identified trends and patterns, transforming raw data into actionable insights
- Implemented data collection strategies to optimize predictive model accuracy.

Data Visualization Engineer Intern

Sep 2023 - Oct 2023

Yesget Graphics, Chennai, Tamil Nadu

- Developed an integrated live visualization dashboard for manager to monitor employee working hours, task completion, and ideal work timelines.
- Enabled real-time updates by connecting the dashboard directly to an online server.
- Deployed the visualization onto the company admin page for convenient access and team performance monitoring.

Data Visualization Analyst Intern

Jan 2023 - May 2023

Ramco Institute of Technology

- Led the creation and launch of a modern data visualization system for college admissions in 2023.
- Integrated live data from main sources smoothly, aiding administrators in making better decisions.
- Used Python, R, and Power BI to make visually appealing charts and graphs for admission data.
- Managed and sorted data efficiently with SQL Server and phpMyAdmin.
- Successfully added the system to the live ERP portal website, allowing for instant updates and giving administrators helpful insights.

Junior Flutter App Developer

Dec 2022 - Apr 2023

Geons Logix, Madurai, Tamil Nadu

- Integrated API data to facilitate real-time communication within the Dental Payment app.
- Optimized app size and implemented dynamic screen adaptation for compatibility across various devices.
- Collaborated with the development team to troubleshoot issues and ensure technical robustness.

CERTIFICATION

- Python Certification, MIMO, 2022
- SQL Certification, MIMO, 2023
- Certified Power BI Analyst, Forsage, 2023
- 5-Star Python Proficiency Badge, HackerRank, 2022
- Certification in Data Analysis Job Stimulation
- Top Artificial Intelligence (AI) Voice, LinkedIn

PROJECTS

- Emotional Recognition using Python
- Text Classification using LSTM
- Visualization Dashboards
- Stock Price Prediction
- Speech Recognition

LANGUAGES

- Tamil
- English
- German

SOFT SKILLS

- Teamwork
- Problem-solving
- Adaptability
- Time management